

EMERGENCY RESPONSE TRIP REPORT

SITE NAME: Hillcrest Recycling Site
 DC No.: RST2-02-F-2152
 TDD No.: TO-0027-0089

SAMPLING DATES: September 12 through 14, 2012

1. **Site Location:** 40 Favor Street, Attica, Wyoming County, New York 14011
2. **Sample Summary:** Refer to Attachment A, Figure 2 - Sample Location Map and Attachment B, Table 1 - Air Station Summary Table
3. **Sample Dispatch Data:**

On September 13, 2012, Weston Solutions, Inc., Removal Support Team 2 (RST 2) initiated the collection of 10 ambient air samples from 10 locations located on and around the Hillcrest Recycling Site (the Site) located in Attica, New York. The samples were collected to assist the U.S. Environmental Protection Agency (EPA) in assessing potential chemical releases from an active fire smoldering in a pile of glass and plastic bottles which covers an area of approximately one acre and is 60 feet high. The locations were selected by the EPA On-Scene Coordinator (OSC) and RST 2 in accordance with officials from the New York State Department of Environmental Conservation (NYSDEC) and representatives from Wyoming County and the Town of Attica, New York. On September 17, 2012, RST 2 hand-delivered the 10 ambient air samples to Accutest Laboratory for laboratory analysis. All samples were analyzed for target compound list (TCL) volatile organic compounds (VOCs) using Method TO-15.

4. On-Site Personnel:

Name	Representing	Duties On-Site
Dwayne Harrington	Region II, EPA	On-Scene Coordinator
Joel Petty	Region II, RST 2	Site Project Manager, Site Health and Safety, Sample Collection and Management
Mark Conover	Region II, RST 2	Site Project Support, Sample Collection and Management
Brittney Kelly	Region II, RST 2	Site Project Support, Sample Collection and Management

5. Site Background and Description

On September 11, 2012 at 1600 hours, RST 2 received a phone call for an emergency response for a fire that was occurring in a pile of glass, plastic, and waste materials located in the rear of the Hillcrest Recycling facility, an active recycling facility, located

at 40 Favor Street in Attica, Wyoming County, New York. The pile where the fire is occurring is approximately one acre in size and 60 feet high. The fire has been ongoing since May 2012, reportedly. The facility processes boiler slag material (coal slag) into abrasive blast material and glass fragments (cullet) into reflective road striping beads. The facility is located in a residential and commercial area, with residential neighborhoods directly to the northwest, north, northeast, and east of the facility. There is an elementary school to the northeast and a high school to the east of the facility. There is a park to the west of the facility. People that live in the residential neighborhoods have complained about a very distinct chemical smell and have also complained of physical symptoms, such as sore/dry throat and nose. RST 2 was tasked with providing emergency response support at 1600 hours on September 11, 2012.

6. Investigation Summary / Analytical Data Summary

RST 2 was tasked by EPA to mobilize to the Site on September 12, 2012 to provide air sampling for VOCs utilizing Summa canisters and air monitoring utilizing DustTraks for measuring particulates and photo ionization detectors (PIDs) for measuring VOCs. RST 2 also provided site documentation, including preparation of a Site log book and photographic documentation.

Three RST 2 team members arrived at the Site at 1815 hours on September 12, 2012. Upon arrival, RST 2 noticed a strong chemical odor in the air. RST 2 calibrated and initiated air monitoring activities using a MultiRAE PID, serial number 095-512479. After calibration, the ambient air in the parking area located directly in the front of the facility under investigation, to the north of the burning pile, yielded readings of 0.0 parts per million (ppm). Wind direction for Buffalo, New York upon RST 2's arrival was from the west southwest at 6.9 miles per hour (mph). Temperatures were in the mid-70s upon arrival dropping into the high 60s (See Attachment E). RST 2 conducted a Site walk with the OSC. In the rear of the facility, plumes of smoke were observed coming from the pile that was smoldering. The pile reportedly consisted of glass bottles mixed with miscellaneous debris, including plastics, papers, and food products. The pile had been sprayed with a concrete mixture in order to facilitate fire suppression. A system was also in operation that had been injecting nitrogen and now was injecting carbon dioxide into the center of the pile for further fire suppression. RST 2 observed elevated VOC readings on the PID ranging from 0.0 ppm to 3.0 ppm for VOCs at the bottom of pile. RST 2 and the OSC ascended the pile along the path used by equipment. At the top of the pile, VOC readings on the PID spiked to 8.0 ppm and all personnel immediately descended the pile. RST 2 departed the Site at 1930 hours.

On September 13, 2012 at 0800 hours, RST 2 arrived at the Site. Upon arrival, a meeting was conducted with the EPA OSC, RST 2 Project Manager, and representatives from the NYSDEC, Wyoming County Emergency Services, and the Town of Attica town officials. During the meeting, 10 locations were chosen to perform air sampling at. Six of these stations would also include DustTraks for particulate monitoring and four stations would also contain AreaRAEs for VOC monitoring (See Attachment B, Table 1). Wind direction for Buffalo, New York upon deployment of the air station was from the south at

6.9 mph. Temperatures were in the mid-60s rising to the low 80s by the afternoon (See Attachment E). RST 2 had set up all of the initial 10 air stations by 1235 hours. The stations would operate for a 24 hour period. At 1550 hours, RST 2 set up three AreaRAE units. RST 2 continuously monitored the air stations to make sure all equipment was functioning properly. RST 2 also utilized the multi-RAE PID when checking the air stations (Refer to Attachment B, Table 2). RST 2 completes monitoring activities at 2359 hours for the day.

RST 2 arrived at the Site at 0600 hours on September 14, 2012. RST 2 continuously monitored the air stations. RST 2 began to break down the air stations at 0950 hours. At 1240 hours, all air stations had been taken down. RST 2 began downloading data and conducting sample management.

RST 2 demobilized from the Site on September 15, 2012.

RST 2 hand-delivered the 10 air samples to Accutest Laboratory for VOC analysis using Method TO-15 on September 17, 2012 at 0900 hours (Refer to Attachment C: Chain of Custody Record). A 48 hour verbal turn-around time was requested for preliminary data. Verbal preliminary results were received on September 18, 2012 (See Attachment F).

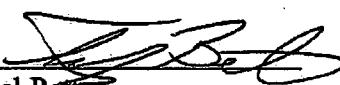
Refer to Attachment D for the Photographic Documentation Log

7. Findings

Based upon the analytical results, the following 30 VOCS were detected in air samples collected from the Site and surrounding area (maximum concentration and sample location in parentheses): acetone [141 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) in P0001-AA001-091312-001]; benzene (687 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); chlorobenzene (23 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); chloroethane (14 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); chloromethane (57.6 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); dichlorodifluoromethane (3.0 $\mu\text{g}/\text{m}^3$ in P0008-AA001-091312-001 and P0009-AA001-091312-001); o-dichlorobenzene (4.7 J $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); ethanol (30.3 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); ethylbenzene (1,460 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); ethyl acetate (37.8 $\mu\text{g}/\text{m}^3$ in P0010-AA001-091312-001); 4-ethyltoluene (8.8 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); freon 113 (2.1 $\mu\text{g}/\text{m}^3$ in P0010-AA001-091312-001); heptane (38 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); hexane (36.3 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); isopropyl alcohol (7.6 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); methylene chloride (8.3 $\mu\text{g}/\text{m}^3$ in P0006-AA001-091312-001); methyl ethyl ketone (24 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); methyl isobutyl ketone (12 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); propylene (800 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); styrene (2,210 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); 1,2,4-trimethylbenzene (35 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); 1,3,5-trimethylbenzene (167 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); tertiary butyl alcohol (2.8 $\mu\text{g}/\text{m}^3$ in P0003-AA001-091312-001); tetrachloroethylene (0.29 $\mu\text{g}/\text{m}^3$ in P0010-AA001-091312-001); tetrahydrofuran (14 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); toluene (803 $\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); trichlorofluoromethane (1.6 $\mu\text{g}/\text{m}^3$ in P0005-AA001-091312-001); m,p-xylene (106

$\mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); o-xylene ($50.8 \mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001); and xylenes (total) ($157 \mu\text{g}/\text{m}^3$ in P0001-AA001-091312-001). Refer to Attachment B, Table 3 for the Preliminary Analytical Summary Table – VOCs in Ambient Air and Attachment F for the Raw Preliminary Analytical Data.

The air monitoring survey that was conducted from September 12 through 14, 2012 revealed that VOCs were present on and directly around the burning pile and that particulate matter was elevated throughout the Village of Attica (Refer to Attachment B, Table 2). In addition, based on visual observations and reports from the surrounding residents, it is a possibility that silica dust associated with on-site process may be migrating off of the Site and impacting the surrounding area.

8. Report prepared by: 
Joel Petty
RST 2 Site Project Manager

9/24/12

Date

Report reviewed by: 
Timothy Benton
RST 2 Readiness Coordinator

9/24/12

Date

ATTACHMENT A

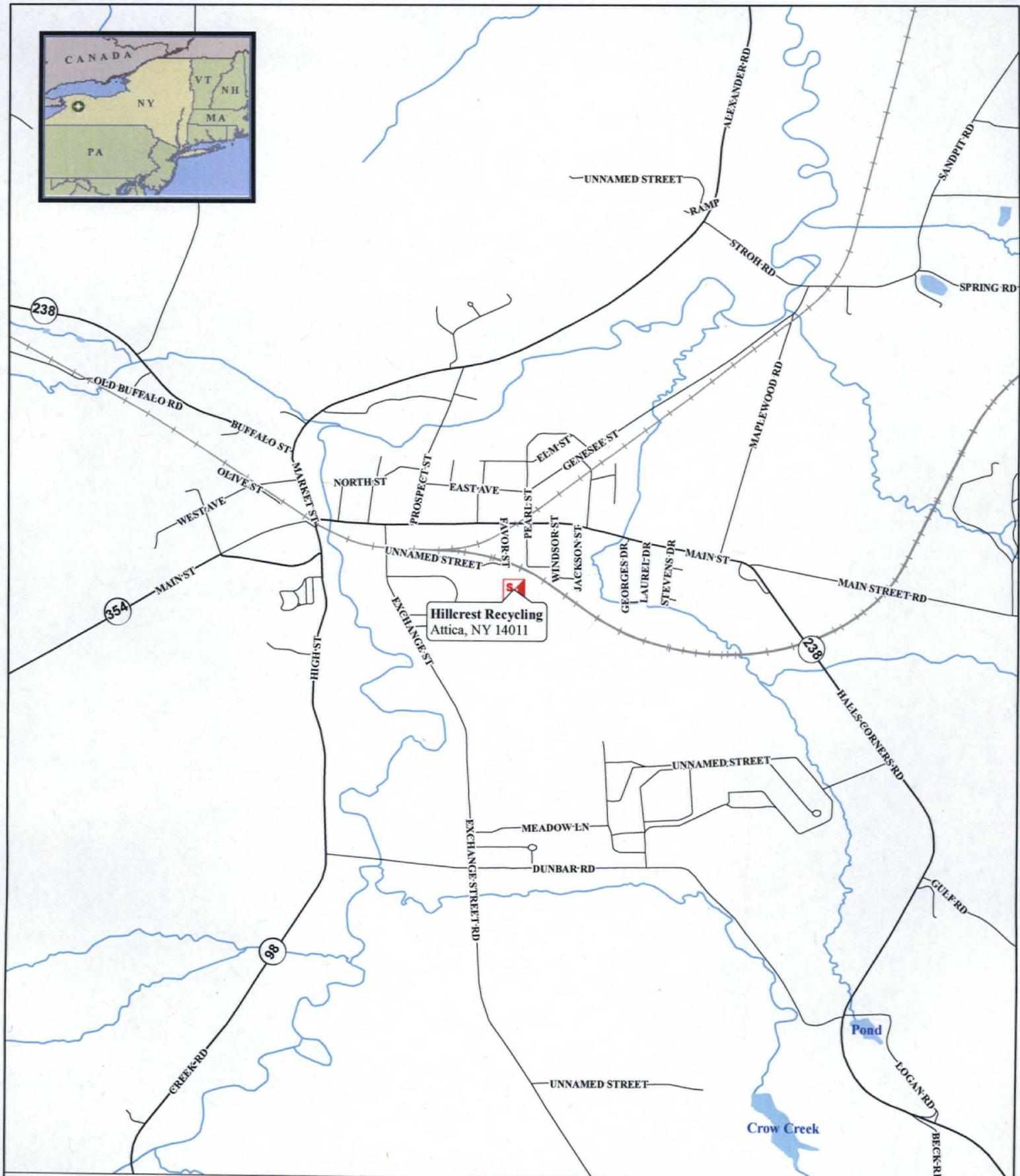
FIGURES

Figure 1: Site Location Map

Figure 2: Air Sampling and Monitoring Location Map

Figure 3: Particulate Air Monitoring Graph

Figure 4: Volatile Organic Compounds Monitoring Graph



Legend

Site Location

0 0.125 0.25 0.5 0.75 1 Miles



WESTON
SOLUTIONS
Weston Solutions, Inc.
Northeast Division

In Association With
H & S Environmental, Inc.,
Scientific and Environmental Associates, Inc.
and Avatar Environmental, LLC.

DATE MODIFIED: 09/17/2012

GIS ANALYST:	T. BENTON
EPA OSC:	D. HARRINGTON
RST SPM:	J. PETTY
FILENAME:	SITEMAP.MXD

**Figure 1:
Site Location Map**

HILLCREST RECYCLING SITE
ATTICA, NEW YORK

U.S. ENVIRONMENTAL PROTECTION AGENCY
REMOVAL SUPPORT TEAM 2
CONTRACT # EP-W-06-072



Legend

Air Monitoring Station

Site Location

0 0.05 0.1 0.2 0.3 0.4 Miles



Weston Solutions, Inc.
Northeast Division

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and Avatar Environmental, LLC.

Figure 2: Air Sampling and Monitoring Location Map

HILLCREST RECYCLING SITE
ATTICA, NEW YORK

U.S. ENVIRONMENTAL PROTECTION AGENCY
REMOVAL SUPPORT TEAM 2
CONTRACT # EP-W-06-072

DATE MODIFIED:	09/17/2012
GIS ANALYST:	T. BENTON
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Figure 3: Particulate Air Monitoring Graph

Hillcrest Recycling Site

Attica, New York

September 13 and 14, 2012

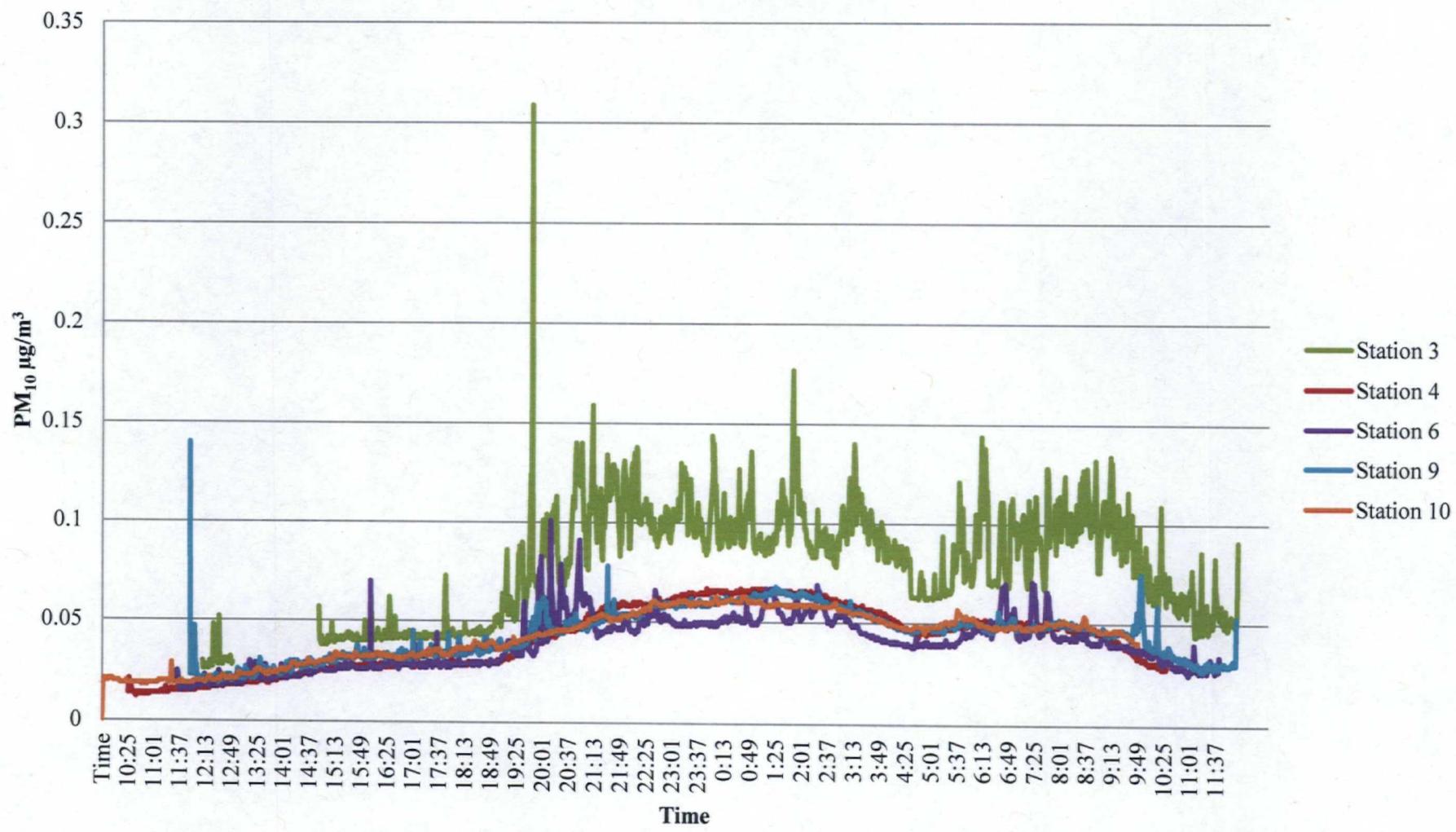
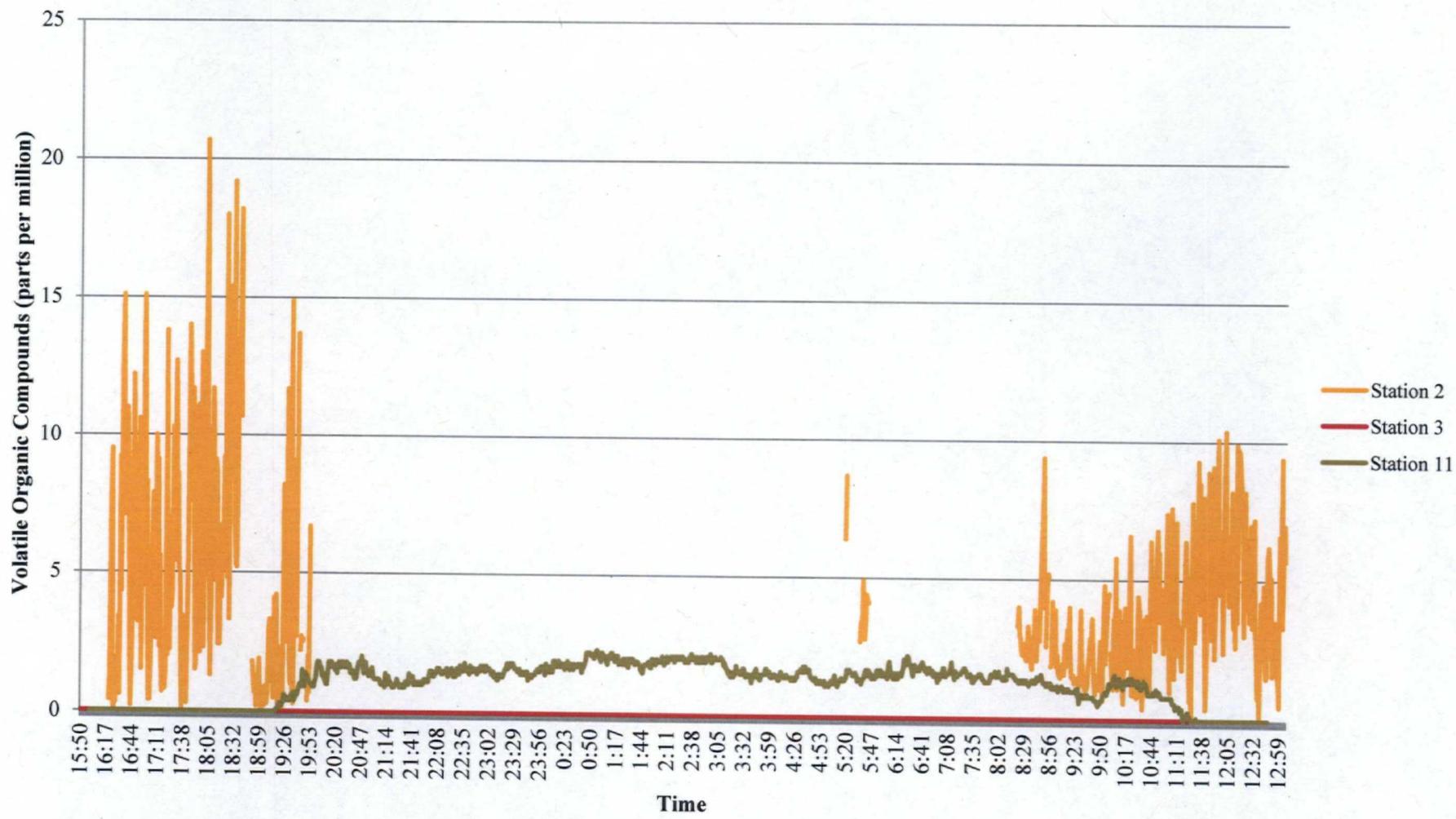


Figure 4: Volatile Organic Compounds Monitoring Graph

Hillcrest Recycling Site

Attica, New York

September 13 and 14, 2012



ATTACHMENT B

TABLES

Table 1: Air Station Summary Table

Table 2: Air Monitoring Station Checks Table

Table 3: Preliminary Analytical Summary Table – VOCs in Ambient Air

Table 1: Air Station Summary Table

Hillcrest Recycling Site

Attica, New York

September 13 and 14, 2012

Station No.	Property ID	Property Location	Direction from Facility/Pile	Sample No.	Sample Duration		Summa Canister No.	Summa Canister Regulator No.	DustTrak Serial No.	AreaRAE Serial No.
01	P0002	Park	West	P0002-AA001-091312-001	09/13/12 - 1153		09/14/12 - 1220	A362	FC096	24064B
02	P0001	Top of Burning Pile	NA	P0001-AA001-091312-001	09/13/12 - 1235		09/14/12 - 1240	A1021	FC451	NA
03	P0003	Front of Facility	North	P0003-AA001-091312-001	09/13/12 - 1208		09/14/12 - 1215	A204	FC379	85201760
04	P0004	Elementary School	Northwest	P0004-AA001-091312-001	09/13/12 - 1025		09/14/12 - 1031	A642	FC447	85202133
05	P0005	Restaurant	North	P0005-AA001-091312-001	09/13/12 - 1140		09/14/12 - 1149	A313	FC115	NA
06	P0006	Residence on Jackson St.	Northeast	P0006-AA001-091312-001	09/13/12 - 1130		09/14/12 - 1139	A371	FC525	85202129
07	P0007	Fire Station No. 2	Northeast	P0007-AA001-091312-001	09/13/12 - 1124		09/14/12 - 1124	A874	FC507	NA
08	P0008	Residence on Georges Drive	Northeast	P0008-AA001-091312-001	09/13/12 - 1200		09/14/12 - 1235	A849	FC126	NA
09	P0009	Residence on Main Street	Northeast	P0009-AA001-091312-001	09/13/12 - 1150		09/14/12 - 1202	A854	FC224	85200201
10	P0010	High School	East	P0010-AA001-091312-001	09/13/12 - 0950		09/14/12 - 0950	A737	FC307	4308
11	P0001	Railroad Tracks	North	NA	09/13/12 - 1600		09/14/12 - 1245	NA	NA	292-502957

Notes:

No. - Number

ID - Identification

Time - Military Hours

NA - Not Applicable

Table 2: Air Monitoring Station Checks Table
Hillcrest Recycling Site
Attica, New York
September 13 and 14, 2012

DustTrak Monitoring Station Check No.				Start Check 1		Check 2		Check 3		Check 4		Check 5		Stop Check 6	
				Station Check Date		9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/14/2012	
Station	Property ID	Property Location	DustTrak Serial No.	Time	PM ₁₀ µg/m ³	Time	PM ₁₀ µg/m ³	Time	PM ₁₀ µg/m ³	Time	PM ₁₀ µg/m ³	Time	PM ₁₀ µg/m ³	Time	PM ₁₀ µg/m ³
01	P0002	Park	24064B	1153	0.023	1530	0.035	1650	0.03	1950	0.058	0713	0.055	1220	0.023
03	P0003	Front of Facility	85201760	1208	0.026	1450 ^{*1}	0.057	1735	0.043	1845	0.044	0615	0.075	1215	0.091
04	P0004	Elementary School	85202133	1025	0.014	1515	0.042	1720	0.028	1940	0.035	0729	0.048	1031	0.029
06	P0006	Residence on Jackson St.	85202129	1130	0.021	1525	0.021	1719	0.032	1850	0.031	0650	0.049	1139	0.033
09	P0009	Residence on Main Street	85200201	1150	0.027	1545	0.031	1710	0.038	1908	0.036	0645	0.051	1202	0.053
10	P0010	High School	4308	950	0.017	1500	0.029	1700	0.034	1915	0.038	0700	0.048	950	0.041

AreaRAE Monitoring Station Check No.				Start Check 1		Start Check 2		Check 3		Check 4		Check 5		Stop Check 6	
				Station Check Date		9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/14/2012	
Station Location	Property ID	Property Location	AreaRAE Serial No.	Time	ppm	Time	ppm	Time	ppm	Time	ppm	Time	ppm	Time	ppm
02	P0001	Top of Burning Pile	292-502958	NA	NA	1620	0.40	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	1240	5.70
03	P0003	Front of Facility	292-502960	NA	NA	1550	0.00	1735	0.00	1845	0.00	0615	0.00	1215	0.00
11	P0001	Railroad Tracks	292-502957	NA	NA	1600	0.00	1745	3.00	2030	1.00	0618	2.1	1245	0.00

Notes: PM₁₀ - particulate matter less than 10 micrometers µg/m³ - mirometers per meter cubed

^{*1} - DustTrak stopped logging from 1251 hrs to 1449 hrs. RST 2 restarted Station 3 DustTrak at 1450 hrs during station check 2.

N.C. - not checked during that round of station checks

NA - not applicable, AreaRAE not deployed

Table 3: Preliminary Analytical Summary Table - VOCs in Ambient Air
Hillcrest Recycling Site
Attica, New York
September 13 and 14, 2012

RST 2 Sample ID	P0001-AA001-091312 001	P0002-AA001-091312 001	P0003-AA001-091312 001	P0004-AA001-091312 001	P0005-AA001-091312 001	P0006-AA001-091312 001	P0007-AA001-091312 001	P0008-AA001-091312 001	P0009-AA001-091312 001	P0010-AA001-091312 001
Start Date / Stop Date	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12
Start Time / Stop Time	12:35 / 12:40	11:53 / 12:20	12:08 / 12:15	10:25 / 10:31	11:40 / 11:49	11:30 / 11:39	11:24 / 11:24	12:00 / 12:35	11:50 / 12:02	09:50 / 09:50
Result Unit	ppbv	$\mu\text{g}/\text{m}^3$								
Volatile Organic Compound										
Acetone	59.3	141	10.9	25.9	10.6	25.2	6.5	15	6.3	15
1,3-Butadiene	U	U	U	U	U	U	U	U	U	U
Benzene	215	687	0.13 J	0.42 J	7.9	25	0.14 J	0.45 J	2.5	8.0
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U
Bromoform	U	U	U	U	U	U	U	U	U	U
Bromomethane	U	U	U	U	U	U	U	U	U	U
Bromoethene	U	U	U	U	U	U	U	U	U	U
Benzyl Chloride	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	5.1	23	U	U	0.12 J	0.55 J	U	U	U	U
Chloroethane	5.3	14	U	U	U	U	U	U	U	U
Chloroform	U	U	U	U	U	U	U	U	U	U
Chloromethane	27.9	57.6	0.49	1.0	2.0	4.1	0.56	1.2	0.99	2.0
3-Chloropropene	U	U	U	U	U	U	U	U	0.70	1.4
2-Chlorotoluene	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U
Cyclohexane	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethylene	U	U	U	U	U	U	U	U	U	U
1,2-Dibromoethane	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U
1,4-Dioxane	U	U	U	U	U	U	U	U	U	U
Dichlorodifluoromethane	0.51 J	2.5 J	0.48	2.4	0.15 J	0.74 J	0.52	2.6	0.49	2.4
Dibromochloromethane	U	U	U	U	U	U	U	U	0.47	2.3
trans-1,2-Dichloroethylene	U	U	U	U	U	U	U	U	0.54	2.7
cis-1,2-Dichloroethylene	U	U	U	U	U	U	U	U	0.61	3.0
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	0.61	3.0
m-Dichlorobenzene	U	U	U	U	U	U	U	U	0.78 J	4.7 J
o-Dichlorobenzene	U	U	U	U	U	U	U	U	0.78 J	4.7 J
p-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U
Ethanol	16.1	30.3	2.2	4.1	3.4	6.4	1.9	3.6	2.4	4.5
Ethylbenzene	337	1,460	U	U	10.4	45.2	0.11 J	0.48 J	2.4	10

Notes:

U: Flag indicates the compound was analyzed for but not detected.

J: Flag indicates an estimated value.

Table 3: Preliminary Analytical Summary Table - VOCs in Ambient Air
Hillcrest Recycling Site
Attica, New York
September 13 and 14, 2012

RST 2 Sample ID	P0001-AA001-091312 001	P0002-AA001-091312 001	P0003-AA001-091312 001	P0004-AA001-091312 001	P0005-AA001-091312 001	P0006-AA001-091312 001	P0007-AA001-091312 001	P0008-AA001-091312 001	P0009-AA001-091312 001	P0010-AA001-091312 001
Start Date / Stop Date	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12	9/13/12 / 9/14/12
Start Time / Stop Time	12:35 / 12:40	11:53 / 12:20	12:08 / 12:15	10:25 / 10:31	11:40 / 11:49	11:30 / 11:39	11:24 / 11:24	12:00 / 12:35	11:50 / 12:02	09:50 / 09:50
Result Unit	ppbv	µg/m³								
Volatile Organic Compound										
Ethyl Acetate	U	U	2.0	7.2	1.8	6.5	1.5	5.4	1.4	5.0
4-Ethyltoluene	1.8	8.8	U	U	U	U	U	U	U	2.5
Freon 113	U	U	U	U	U	U	U	U	U	9.0
Freon 114	U	U	U	U	U	U	U	U	U	6.0
Heptane	9.3	38	U	U	0.49	2.0	U	U	0.15 J	7.6
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	2.1
Hexane	10.3	36.3	1.4	4.9	0.76	2.7	0.59	2.1	0.96	3.4
2-Hexanone	U	U	U	U	U	U	U	U	U	1.8
Isopropyl Alcohol	3.1	7.6	0.42	1.0	0.63	1.5	U	U	U	6.3
Methylene Chloride	0.82	2.8	0.67	2.3	0.33	1.1	0.52	1.8	0.66	3.4
Methyl Ethyl Ketone	8.2	24	0.53	1.6	1.0	2.9	0.58	1.7	0.56	3.0
Methyl Isobutyl Ketone	3.0	12	U	U	0.21	0.86	U	U	U	0.93
Methyl Tert Butyl Ether	U	U	U	U	U	U	U	U	U	0.93 J
Methylmethacrylate	U	U	U	U	U	U	U	U	U	0.29
Propylene	466	800	U	U	U	U	U	U	U	0.71
Styrene	519	2,210	U	U	14.3	60.9	0.11 J	0.47 J	1.3	5.5
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	2.8
1,1,2,2-Tertachloroethane	U	U	U	U	U	U	U	U	U	12
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	0.73
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	3.1
1,2,4-Trimethylbenzene	7.1	35	U	U	0.24	1.2	U	U	U	0.21
1,3,5-Trimethylbenzene	33.9	167	U	U	0.67	3.3	U	U	U	0.89
2,2,4-Trimethylpentane	U	U	U	U	U	U	U	U	U	0.21
Tertiary Butyl Alcohol	U	U	U	U	0.91	2.8	U	U	U	0.89
Tetrachloroethylene	U	U	U	U	U	U	U	U	U	0.21
Tetrahydrofuran	4.6	14	U	U	0.23	0.68	U	U	U	0.29
Toluene	213	803	0.22	0.83	8.9	34	0.30	1.1	2.5	0.44
Trichloroethylene	U	U	U	U	U	U	U	U	U	1.7
Trichlorofluoromethane	U	U	0.21	1.2	0.25	1.4	0.25	1.4	0.29	0.49
Vinyl Chloride	U	U	U	U	U	U	U	U	U	1.8
Vinyl Acetate	U	U	U	U	U	U	U	U	U	0.24
m,p-Xylene	24.5	106	0.13 J	0.56 J	1.9	8.3	0.24	1.0	0.32	1.3
o-Xylene	11.7	50.8	U	U	0.87	3.8	0.10 J	0.43 J	0.13 J	0.23
Xylenes (total)	36.2	157	0.13 J	0.56 J	2.8	12	0.34	1.5	0.45	1.3
										0.52 J

Notes:

U: Flag indicates the compound was analyzed for but not detected.

J: Flag indicates an estimated value.

ATTACHMENT C

Chain of Custody Records

USEPA

DateShipped: 9/17/2012

CarrierName: Hand Delivery

Airbill No: NA

CHAIN OF CUSTODY RECORD

RFP #238

Contact Name: Joel Petty

Contact Phone: 732-570-4943

No: 2-091412-114240-0001

Lab: Accutest Laboratories

Lab Contact: Susan Gloetz

Lab Phone: 732-329-0200

Lab #	Sample #	Analyses	Matrix	Numb Cont	Container	Pump #	OrificeID	Start Pressur e	Stop Pressur e	MS/MSD	Start_Dat e	Start_Ti me	Stop_Dat e	Stop_Ti me
	P0001-AA001-091312-001	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A1021	Regulator #: FC451	-28	-3.5	N	9/13/2012	12:35:00 PM	9/14/2012	12:40:00 PM
	P0002-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A362	Regulator #: FC096	-31	-5	N	9/13/2012	11:53:00 AM	9/14/2012	12:20:00 PM
	P0003-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A204	Regulator #: FC379	-30	-3	N	9/13/2012	12:08:00 PM	9/14/2012	12:15:00 PM
	P0004-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A642	Regulator #: FC447	-32	-6	N	9/13/2012	10:25:00 AM	9/14/2012	10:31:00 AM
	P0005-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A313	Regulator #: FC115	-28	-3	N	9/13/2012	11:40:00 AM	9/14/2012	11:49:00 AM
	P0006-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A371	Regulator #: FC525	-30	-5	N	9/13/2012	11:30:00 AM	9/14/2012	11:39:00 AM
	P0007-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A874	Regulator #: FC507	-29	-3	N	9/13/2012	11:24:00 AM	9/14/2012	11:24:00 AM

Special Instructions: Samples to be analyzed using TO-15 24 Hour TAT	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #
---	--

USEPA

DateShipped: 9/17/2012

CarrierName: Hand Delivery

Airbill No: NA

CHAIN OF CUSTODY RECORD

RFP # 238

Contact Name: Joel Petty

Contact Phone: 732-570-4943

No: 2-091412-114240-0001

Lab: Accutest Laboratories

Lab Contact: Susan Gloetz

Lab Phone: 732-329-0200

Lab #	Sample #	Analyses	Matrix	Numb Cont	Container	Pump #	OrificeID	Start Pressure	Stop Pressure	MS/MSD	Start Date	Start Time	Stop Date	Stop Time
	P0008-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A849	Regulator #: FC126	-28	-1	N	9/13/2012	12:00:00 PM	9/14/2012	12:35:00 PM
	P0009-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A854	Regulator #: FC224	-30	-4.5	N	9/13/2012	11:50:00 AM	9/14/2012	12:02:00 PM
	P0010-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A737	Regulator #: FC307	-32	-5	N	9/13/2012	9:50:00 AM	9/14/2012	9:50:00 AM

Special Instructions: Samples to be analyzed using TO-15

24 Hour TAT

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

ATTACHMENT D

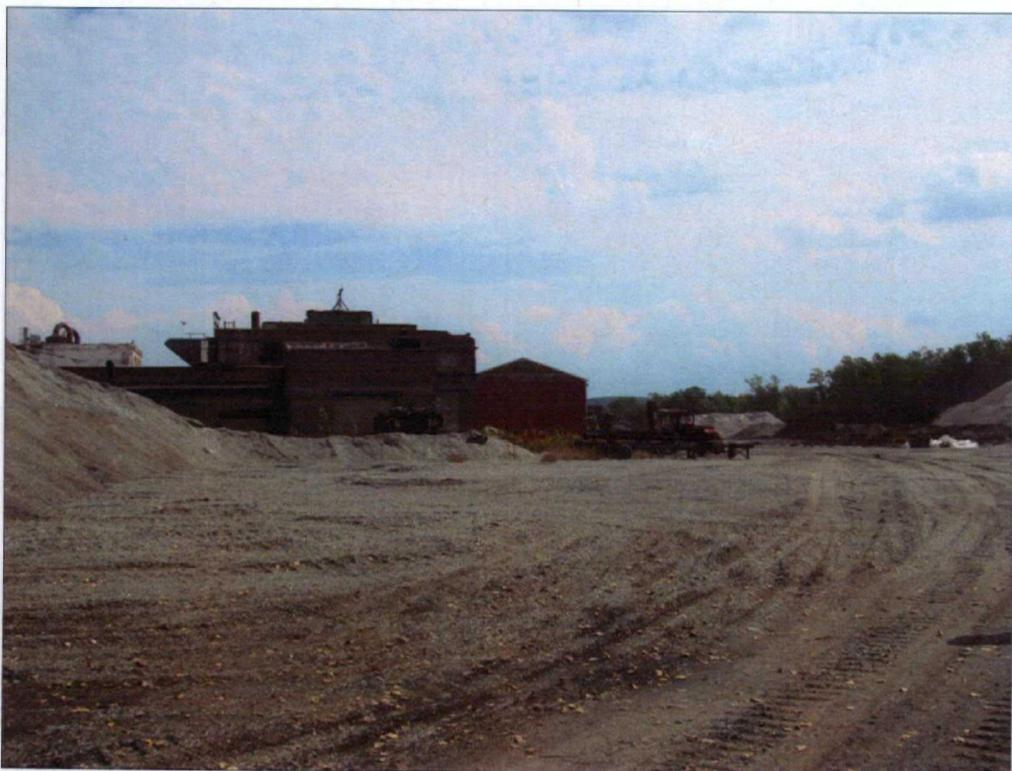
Photographic Documentation Log

Photographic Documentation Log

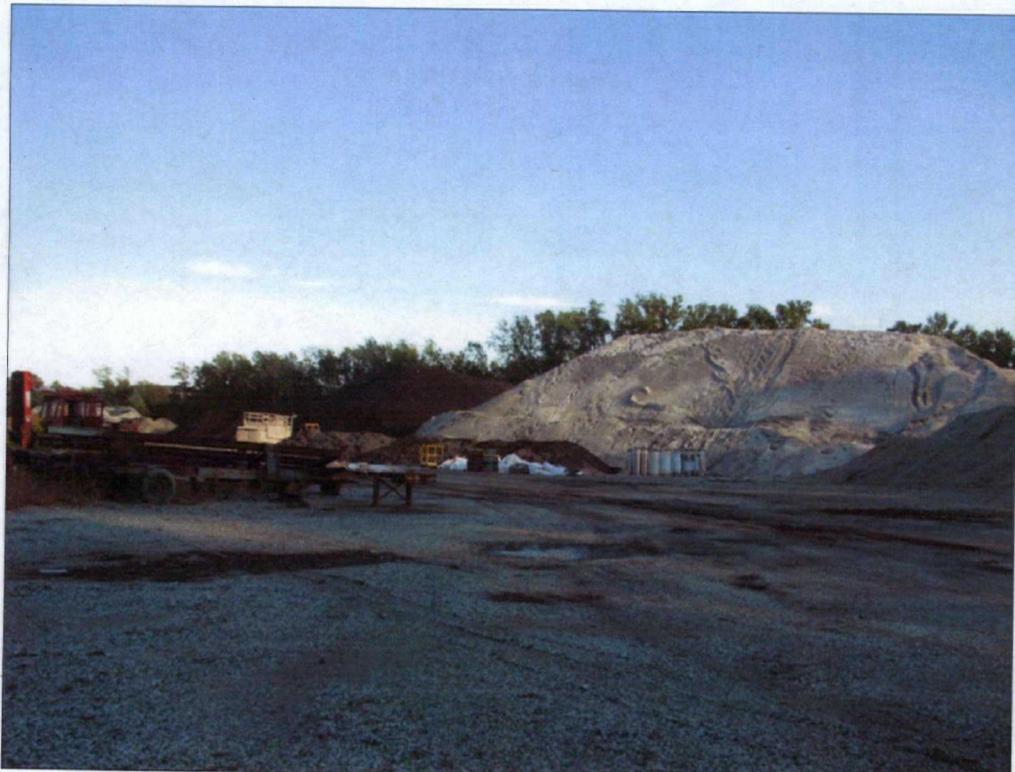
Hillcrest Recycling Site

Attica, New York

September 12 through 14, 2012



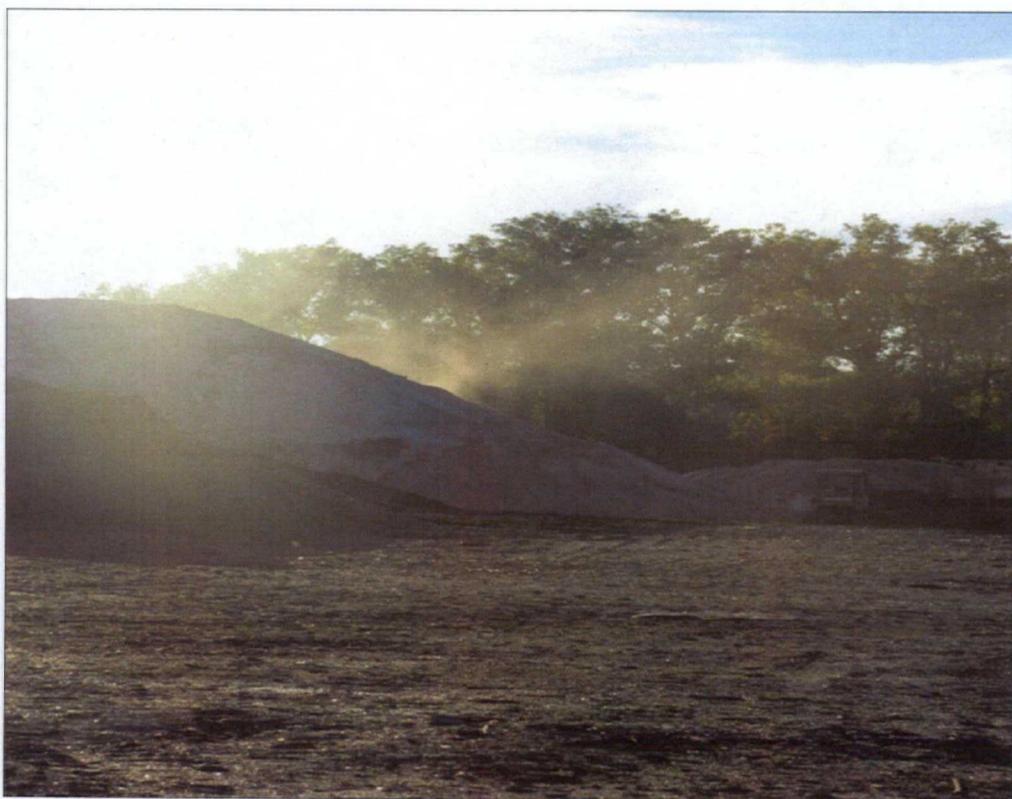
Photograph 1: A view of the Hillcrest Recycling facility facing East and located West of the burning stockpile taken on 09/14/12 at 1307 hrs.



Photograph 2: A view of the burning stockpile facing south taken on 09/12/12 at 1802 hrs.

Photographic Documentation Log

Hillcrest Recycling Site
Village of Attica, New York
September 12 thru 14, 2012



Photograph 3: A view of the burning stockpile facing west taken on 09/12/12 at 1825 hrs.



Photograph 4: A view of the burning stockpile facing south taken on 09/13/12 at 1318 hrs.

Photographic Documentation Log

Hillcrest Recycling Site
Village of Attica, New York
September 12 thru 14, 2012



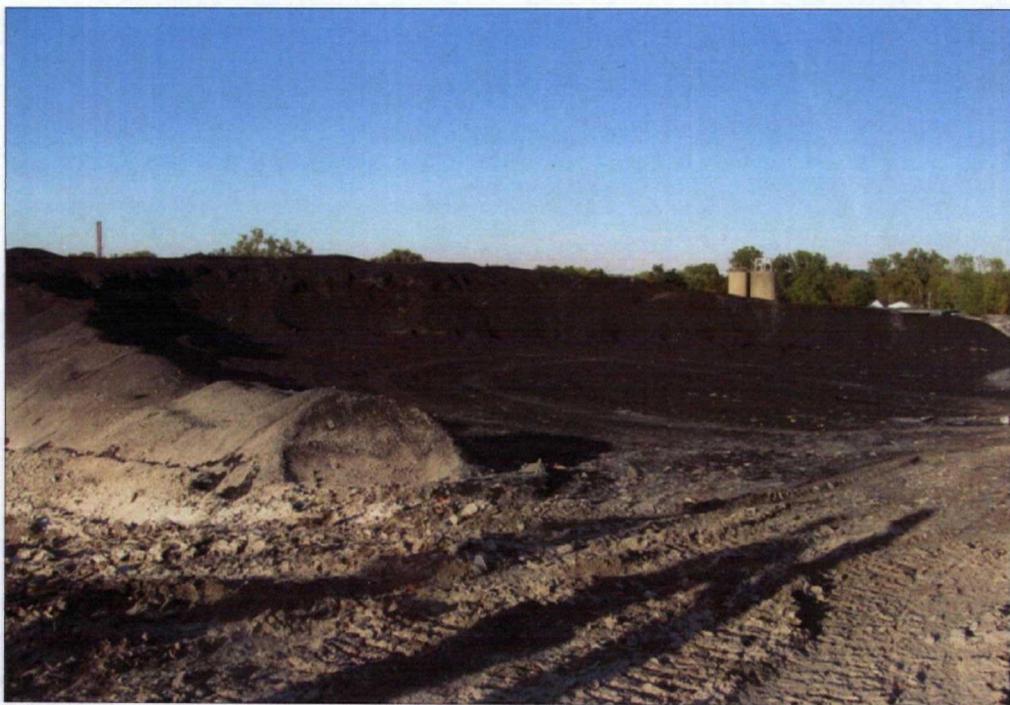
Photograph 5: A view of the burning stockpile facing west from the access path between the burning stockpile and coal slag stockpile taken on 09/12/12 at 1816 hrs.



Photograph 6: A view of the plastic debris on the access path between the burning stockpile and coal slag stockpile facing north taken on 09/12/12 at 1813 hrs.

Photographic Documentation Log

Hillcrest Recycling Site
Village of Attica, New York
September 12 thru 14, 2012



Photograph 7: A view of the coal slag stockpile located east of the burning stockpile taken on 09/12/12 at 1813 hrs.



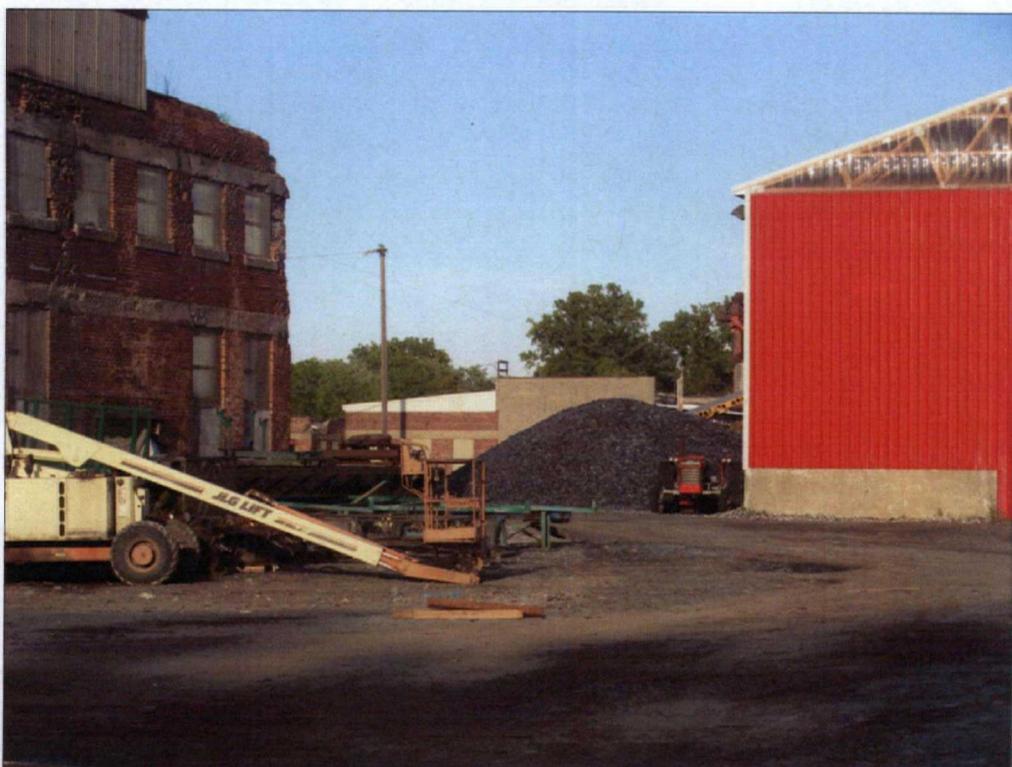
Photograph 8: A view of the access road behind the coal slag pile to stockpile paper and plastic stockpile located east of the burning pile taken on 09/13/12 at 1313 hrs.

Photographic Documentation Log

Hillcrest Recycling Site

Village of Attica, New York

September 12 thru 14, 2012



Photograph 9: A view of Hillcrest Recycling facility facing northeast and located northeast of the burning stockpile taken on 09/12/12 at 1804hrs.



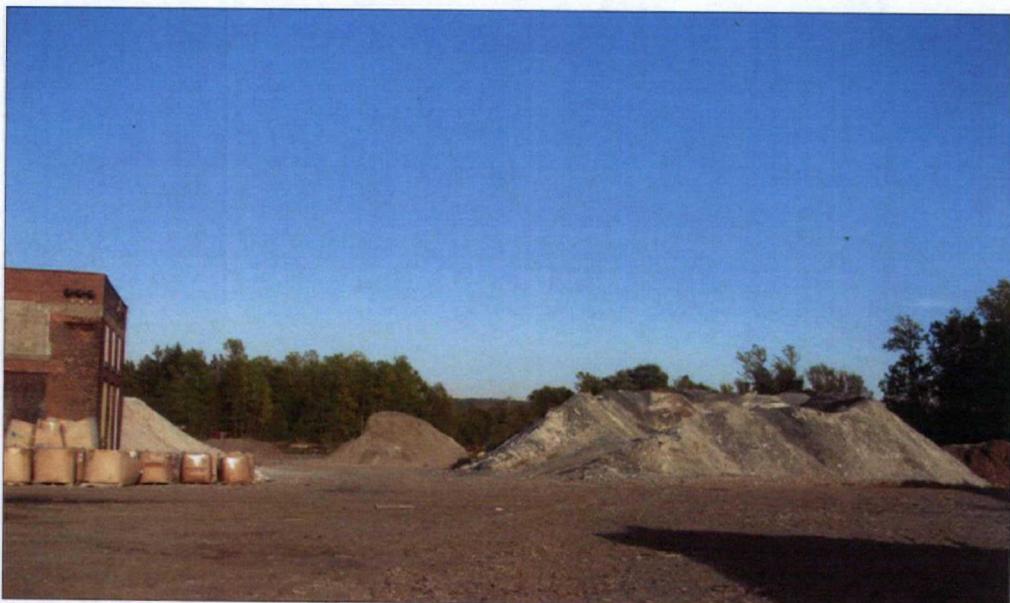
Photograph 10: A view of Hillcrest Recycling facility facing east and located northeast of the burning stockpile taken on 09/12/12 at 1817 hrs.

Photographic Documentation Log

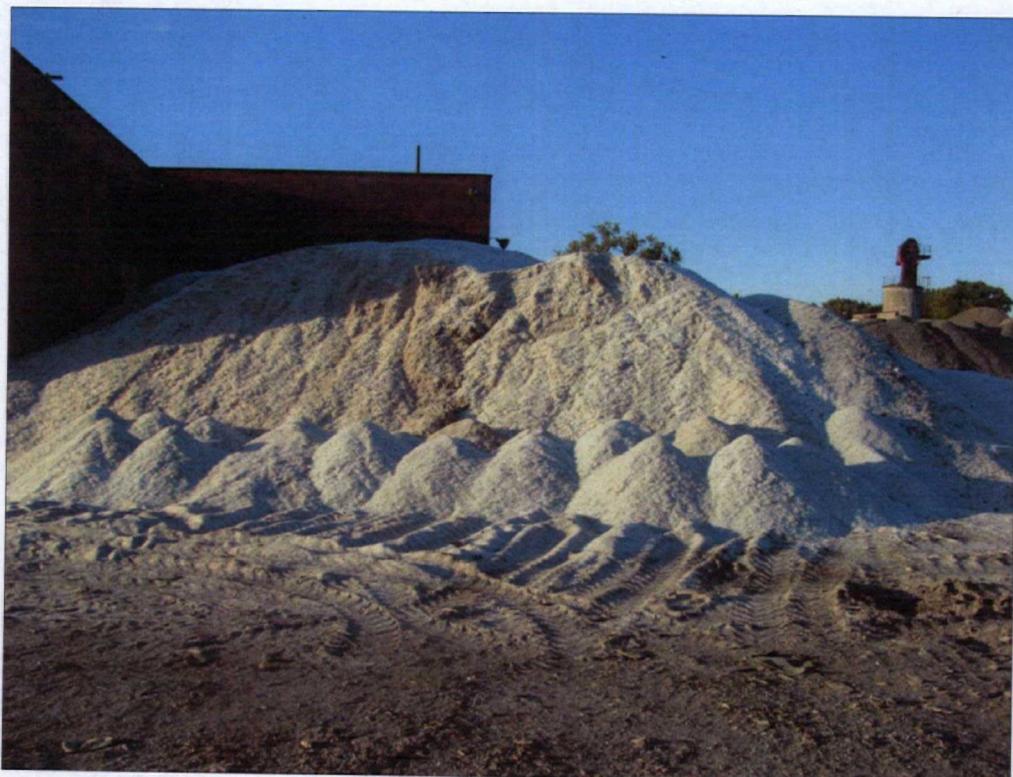
Hillcrest Recycling Site

Village of Attica, New York

September 12 thru 14, 2012



Photograph 11: A view of a coarse crushed glass pile with coal slag stockpile facing east and located northeast of the burning stockpile taken on 09/12/12 at 1821 hrs.



Photograph 12: A view of a finely crushed glass pile stockpile facing north and located northeast of the burning pile taken on 09/12/12 at 1821 hrs.

Photographic Documentation Log

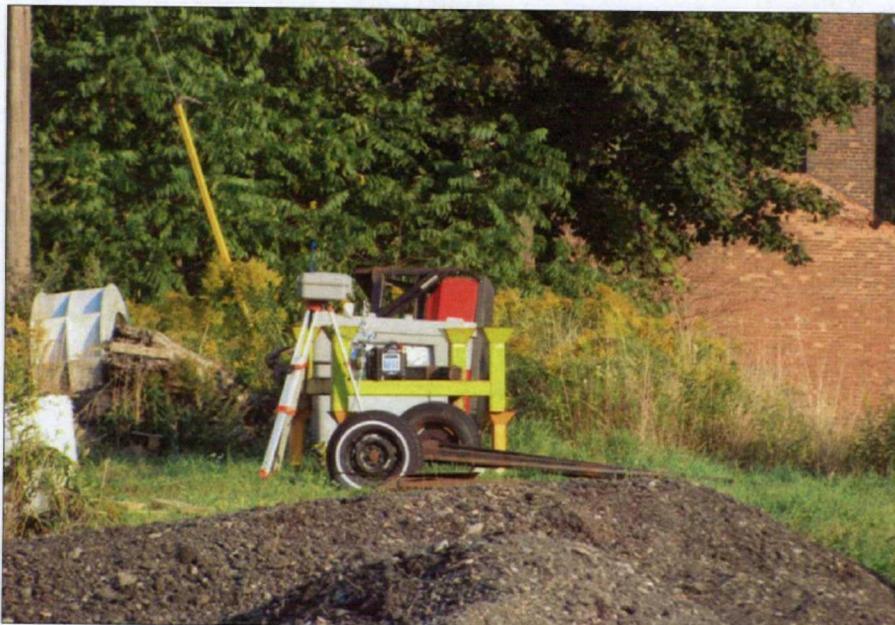
Hillcrest Recycling Site

Village of Attica, New York

September 12 thru 14, 2012



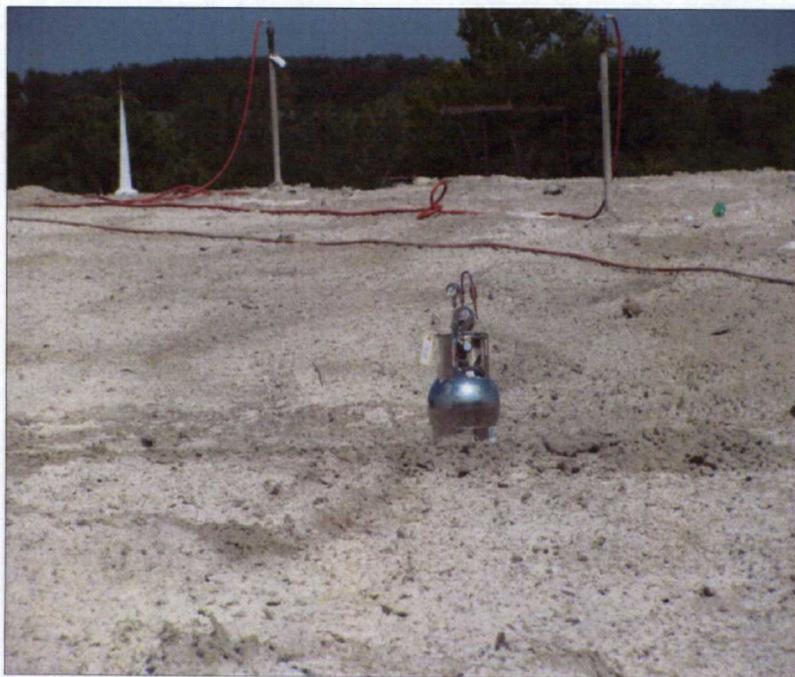
Photograph 13: A view of a finely crushed glass on the active railroad station access platform facing northeast and located at P0001 and northeast of the burning stockpile taken on 09/13/12 at 0913 hrs.



Photograph 14: A view of Air Monitoring/Sampling Station 3 located at P0003 in front of the facility and north of the burning stockpile taken on 09/13/12 at 1740 hrs.

Photographic Documentation Log

Hillcrest Recycling Site
Village of Attica, New York
September 12 thru 14, 2012



Photograph 15: A view of Air Monitoring/Sampling Station 2 located at P0001 on the burning stockpile taken on 09/13/12 at 1229 hrs.



Photograph 16: A view of Air Monitoring/Sampling Station 6 located at P0006 on Jackson St. and northeast of the burning stockpile taken on 09/13/12 at 1127 hrs.

ATTACHMENT E

Weather for September 12 through 14, 2012

History for Buffalo, NY

Wednesday, September 12, 2012

Wednesday, September 12, 2012

[« Previous Day](#)

September 12, 2012

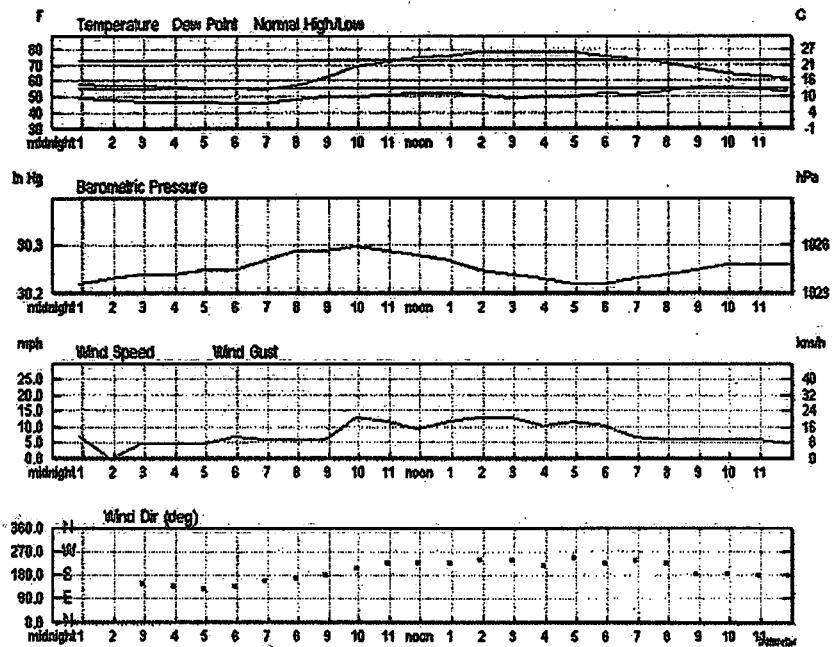
[Next Day »](#)
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	Actual	Average	Record
Temperature			
Mean Temperature	66 °F	64 °F	
Max Temperature	79 °F	73 °F	91 °F (1952)
Min Temperature	53 °F	65 °F	38 °F (1943)
Degree Days			
Heating Degree Days	0	3	
Month to date heating degree days	10	27	
Since 1 July heating degree days	11	54	
Cooling Degree Days	1	2	
Month to date cooling degree days	73	33	
Year to date cooling degree days	866	520	
Growing Degree Days	16 (Base 50)		
Moisture			
Dew Point	60 °F		
Average Humidity	54		
Maximum Humidity	73		
Minimum Humidity	35		
Precipitation			
Precipitation	0.00 in	0.12 in	1.63 in (1878)
Month to date precipitation	2.50	1.39	
Year to date precipitation	19.24	28.55	
Snow			
Snow	0.00 in	0.00 in	0.00 in ()
Month to date snowfall	0.0	0.0	
Since 1 July snowfall	0.0	0.0	
Since 1 September snowfall	0.0	0.0	
Snow Depth	0.00 in		
Sea Level Pressure			
Sea Level Pressure	30.25 in		
Wind			
Wind Speed	7 mph (SSW)		
Max Wind Speed	16 mph		
Max Gust Speed	20 mph		
Visibility	10 miles		
Events			

T = Trace of Precipitation, MM = Missing Value

Source: NWS Daily Summary

History | Weather Underground



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Hourly Observations

Time (EDT)	Temp.	Dew Point	Humidity	Pressure	Visibility	Wind Dir	Wind Speed	Gust Speed	Precip	Events	Conditions
12:54 AM	57.9 °F	48.9 °F	72%	30.22 in	10.0 mi	South	6.8 mph	-	N/A		Clear
1:54 AM	57.0 °F	48.0 °F	72%	30.23 in	10.0 mi	Calm	Calm	-	N/A		Clear
2:54 AM	57.0 °F	46.9 °F	69%	30.24 in	10.0 mi	SSE	4.6 mph	-	N/A		Clear
3:54 AM	55.9 °F	46.0 °F	72%	30.24 in	10.0 mi	SE	4.6 mph	-	N/A		Clear
4:54 AM	55.0 °F	46.9 °F	74%	30.25 in	10.0 mi	SE	4.6 mph	-	N/A		Clear
5:54 AM	55.0 °F	46.0 °F	72%	30.25 in	10.0 mi	SE	6.8 mph	-	N/A		Clear
6:54 AM	54.0 °F	46.0 °F	75%	30.27 in	10.0 mi	SSE	6.8 mph	-	N/A		Partly Cloudy
7:54 AM	57.0 °F	48.0 °F	72%	30.29 in	10.0 mi	South	5.8 mph	-	N/A		Scattered Clouds
8:54 AM	62.1 °F	50.0 °F	65%	30.29 in	10.0 mi	South	5.8 mph	-	N/A		Scattered Clouds
9:54 AM	63.1 °F	50.0 °F	51%	30.30 in	10.0 mi	SSW	12.7 mph	-	N/A		Scattered Clouds
10:54 AM	72.0 °F	51.1 °F	48%	30.29 in	10.0 mi	SW	11.5 mph	-	N/A		Scattered Clouds
11:54 AM	75.0 °F	52.0 °F	44%	30.28 in	10.0 mi	SW	9.2 mph	-	N/A		Scattered Clouds
12:54 PM	75.9 °F	52.0 °F	43%	30.27 in	10.0 mi	SW	11.6 mph	-	N/A		Scattered Clouds
1:54 PM	75.1 °F	51.1 °F	39%	30.25 in	10.0 mi	WSW	12.7 mph	19.6 mph	N/A		Scattered Clouds
2:54 PM	78.1 °F	48.9 °F	36%	30.24 in	10.0 mi	WSW	12.7 mph	-	N/A		Scattered Clouds
3:54 PM	78.1 °F	50.0 °F	37%	30.23 in	10.0 mi	SW	10.4 mph	-	N/A		Scattered Clouds
4:54 PM	78.1 °F	50.0 °F	37%	30.22 in	10.0 mi	WSW	11.5 mph	-	N/A		Scattered Clouds
5:54 PM	75.9 °F	52.0 °F	43%	30.22 in	10.0 mi	SW	10.4 mph	-	N/A		Scattered Clouds
6:54 PM	73.9 °F	51.1 °F	45%	30.23 in	10.0 mi	WSW	6.9 mph	-	N/A		Mostly Cloudy
7:54 PM	71.1 °F	53.1 °F	53%	30.24 in	10.0 mi	SW	5.8 mph	-	N/A		Scattered Clouds

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Time (EDT)	Temp.	Dew Point	Humidity	Pressure	Visibility	Wind Dir	Wind Speed	Gust Speed	Precip	Events	Conditions
8:54 PM	68.0 °F	66.9 °F	65%	30.25 in	10.0 mi	South	5.8 mph	-	N/A		Partly Cloudy
9:54 PM	64.9 °F	66.9 °F	73%	30.26 in	10.0 mi	South	5.8 mph	-	N/A		Partly Cloudy
10:54 PM	63.0 °F	64.0 °F	72%	30.28 in	10.0 mi	South	5.8 mph	-	N/A		Partly Cloudy
11:54 PM	62.1 °F	63.1 °F	72%	30.28 in	10.0 mi	South	4.8 mph	-	N/A		Partly Cloudy

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History for Buffalo, NY

Thursday, September 13, 2012

Thursday, September 13, 2012

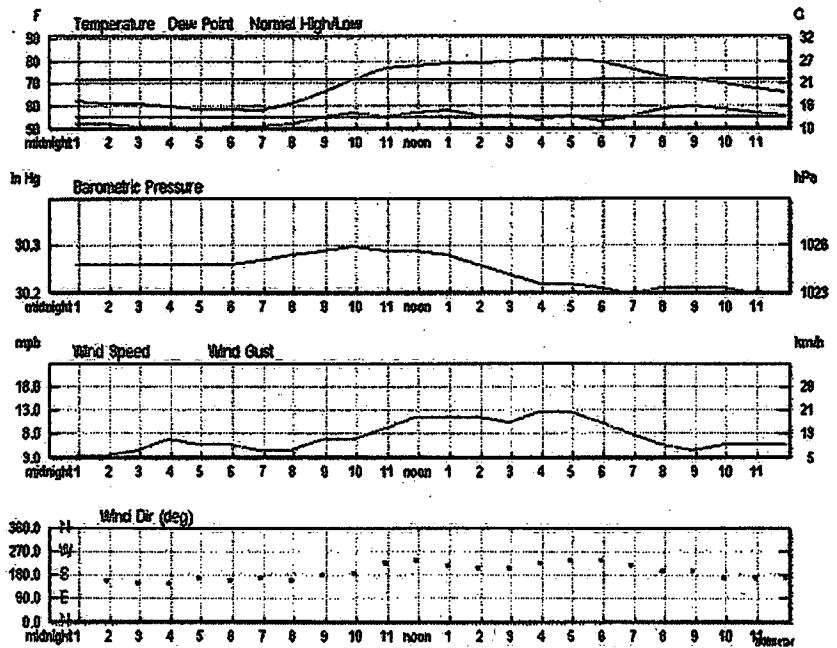
[« Previous Day](#)September 13, 2012 [View...](#)[Next Day »](#)
[Daily](#) [Weekly](#) [Monthly](#) [Custom](#)

	Actual	Average	Record
Temperature			
Mean Temperature	70 °F	63 °F	
Max Temperature	82 °F	72 °F	91 °F (1952)
Min Temperature	58 °F	55 °F	38 °F (1964)
Degree Days			
Heating Degree Days	0	4	
Month to date heating degree days	10	31	
Since 1 July heating degree days	11	58	
Cooling Degree Days	5	2	
Month to date cooling degree days	78	35	
Year to date cooling degree days	871	522	
Growing Degree Days	20 (Base 50)		
Moisture			
Dew Point	66 °F		
Average Humidity	60		
Maximum Humidity	80		
Minimum Humidity	39		
Precipitation			
Precipitation	0.00 in	0.12 in	1.85 in (1925)
Month to date precipitation	2.50	1.51	
Year to date precipitation	19.24	26.67	
Snow			
Snow	0.00 in	0.00 in	0.00 in (0)
Month to date snowfall	0.0	0.0	
Since 1 July snowfall	0.0	0.0	
Since 1 September snowfall	0.0	0.0	
Snow Depth	0.00 in		
Sea Level Pressure			
Sea Level Pressure	30.25 in		
Wind			
Wind Speed	7 mph (South)		
Max Wind Speed	18 mph		
Max Gust Speed	20 mph		
Visibility	10 miles		
Events			

T = Trace of Precipitation, MM = Missing Value

Source: NWS Daily Summary

History | Weather Underground



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Hourly Observations

Time (EDT)	Temp.	Heat Index	Dew Point	Humidity	Pressure	Visibility	Wind Ddir	Wind Speed	Gust Speed	Precip	Events	Conditions
12:54 AM	62.1 °F	-	52.0 °F	70%	30.26 in	10.0 mi	SSE	3.5 mph	-	N/A		Partly Cloudy
1:54 AM	61.0 °F	-	52.0 °F	72%	30.26 in	10.0 mi	SSE	3.5 mph	-	N/A		Partly Cloudy
2:54 AM	61.0 °F	-	51.1 °F	70%	30.26 in	10.0 mi	SSE	4.6 mph	-	N/A		Partly Cloudy
3:54 AM	60.1 °F	-	51.1 °F	72%	30.26 in	10.0 mi	SSE	6.9 mph	-	N/A		Clear
4:54 AM	59.0 °F	-	50.0 °F	72%	30.26 in	10.0 mi	South	5.8 mph	-	N/A		Clear
5:54 AM	59.0 °F	-	51.1 °F	75%	30.26 in	10.0 mi	SSE	5.8 mph	-	N/A		Clear
6:54 AM	57.9 °F	-	51.1 °F	78%	30.27 in	10.0 mi	South	4.6 mph	-	N/A		Partly Cloudy
7:54 AM	61.0 °F	-	52.0 °F	72%	30.28 in	10.0 mi	SSE	4.6 mph	-	N/A		Partly Cloudy
8:54 AM	66.0 °F	-	55.0 °F	68%	30.29 in	10.0 mi	South	6.9 mph	-	N/A		Scattered Clouds
9:54 AM	72.0 °F	-	57.0 °F	59%	30.30 in	10.0 mi	South	6.9 mph	-	N/A		Scattered Clouds
10:54 AM	77.0 °F	-	55.0 °F	47%	30.29 in	10.0 mi	SW	9.2 mph	-	N/A		Scattered Clouds
11:54 AM	78.1 °F	-	57.0 °F	48%	30.29 in	10.0 mi	WSW	11.5 mph	-	N/A		Scattered Clouds
12:54 PM	79.0 °F	-	57.9 °F	48%	30.28 in	10.0 mi	SW	11.5 mph	-	N/A		Scattered Clouds
1:54 PM	79.0 °F	-	55.9 °F	45%	30.26 in	10.0 mi	SSW	11.5 mph	-	N/A		Scattered Clouds
2:54 PM	80.1 °F	80.2 °F	56.9 °F	43%	30.24 in	10.0 mi	SSW	10.4 mph	-	N/A		Scattered Clouds
3:54 PM	81.0 °F	80.5 °F	54.0 °F	39%	30.22 in	10.0 mi	SW	12.7 mph	-	N/A		Scattered Clouds
4:54 PM	81.0 °F	80.8 °F	55.9 °F	42%	30.22 in	10.0 mi	WSW	12.7 mph	-	N/A		Scattered Clouds
5:54 PM	80.1 °F	79.9 °F	53.1 °F	39%	30.21 in	10.0 mi	WSW	10.4 mph	-	N/A		Scattered Clouds
6:54 PM	77.0 °F	-	55.0 °F	47%	30.20 in	10.0 mi	SW	8.1 mph	-	N/A		Partly Cloudy
7:54 PM	73.0 °F	-	59.0 °F	61%	30.21 in	10.0 mi	SSW	5.8 mph	-	N/A		Scattered Clouds

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History | Weather Underground

Time (EDT)	Temp.	Heat Index	Dew Point	Humidity	Pressure	Visibility	Wind Dir	Wind Speed	Gust Speed	Precip	Events	Conditions
8:54 PM	72.0 °F	-	68.1 °F	66%	30.21 in	10.0 mi	SSW	4.6 mph	-	N/A		Scattered Clouds
9:54 PM	70.0 °F	-	59.0 °F	68%	30.21 in	10.0 mi	South	5.8 mph	-	N/A		Scattered Clouds
10:54 PM	68.0 °F	-	57.0 °F	68%	30.20 in	10.0 mi	South	5.8 mph	-	N/A		Scattered Clouds
11:54 PM	66.0 °F	-	55.9 °F	70%	30.20 in	10.0 mi	South	6.8 mph	-	N/A		Scattered Clouds

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History for Buffalo, NY

Friday, September 14, 2012

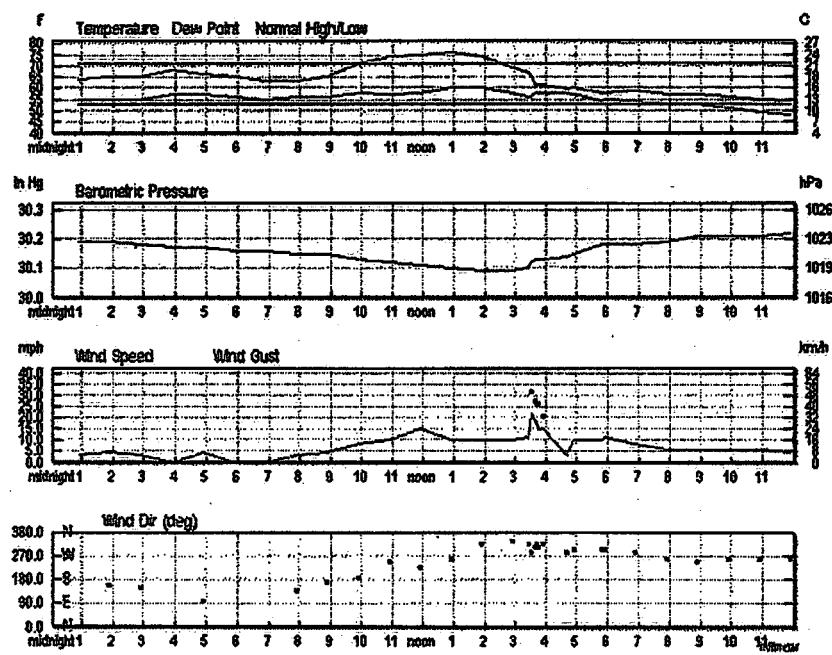
Friday, September 14, 2012

[« Previous Day](#)September 14, 2012 [View](#)[Next Day »](#)[Daily](#) [Weekly](#) [Monthly](#) [Custom](#)

	Actual	Average	Record
Temperature			
Mean Temperature	65 °F	63 °F	
Max Temperature	77 °F	72 °F	91 °F (1952)
Min Temperature	53 °F	54 °F	36 °F (1983)
Degree Days			
Heating Degree Days	0	4	
Month to date heating degree days	10	35	
Since 1 July heating degree days	11	62	
Cooling Degree Days	0	2	
Month to date cooling degree days	78	37	
Year to date cooling degree days	871	524	
Growing Degree Days	16 (Base 50)		
Moisture			
Dew Point	57 °F		
Average Humidity	72		
Maximum Humidity	90		
Minimum Humidity	54		
Precipitation			
Precipitation	0.46 in	0.14 in	4.89 in (1979)
Month to date precipitation	2.96	1.65	
Year to date precipitation	19.70	26.81	
Snow			
Snow	0.00 in	0.00 in	0.00 in ()
Month to date snowfall	0.0	0.0	
Since 1 July snowfall	0.0	0.0	
Since 1 September snowfall	0.0	0.0	
Snow Depth	0.00 in		
Sea Level Pressure			
Sea Level Pressure	30.15 in		
Wind			
Wind Speed	7 mph (West)		
Max Wind Speed	22 mph		
Max Gust Speed	32 mph		
Visibility	9 miles		
Events	Rain		

T = Trace of Precipitation, MN = Missing Value

Source: NWS Daily Summary

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Hourly Observations

Time (EDT)	Temp.	Dew Point	Humidity	Pressure	Visibility	Wind Dir	Wind Speed	Gust Speed	Precip	Events	Conditions
12:54 AM	64.9 °F	55.9 °F	73%	30.19 in	10.0 mi	South	3.5 mph	-	N/A		Mostly Cloudy
1:54 AM	66.0 °F	55.9 °F	70%	30.19 in	10.0 mi	SSE	4.6 mph	-	N/A		Mostly Cloudy
2:54 AM	66.0 °F	55.9 °F	70%	30.18 in	10.0 mi	SSE	3.5 mph	-	N/A		Mostly Cloudy
3:54 AM	69.1 °F	57.9 °F	68%	30.17 in	10.0 mi	Calm	Calm	-	N/A		Overcast
4:54 AM	66.8 °F	57.9 °F	73%	30.17 in	10.0 mi	East	4.6 mph	-	N/A		Overcast
5:54 AM	66.0 °F	57.0 °F	73%	30.16 in	10.0 mi	Calm	Calm	-	N/A		Overcast
6:54 AM	64.0 °F	55.9 °F	75%	30.16 in	10.0 mi	Calm	Calm	-	N/A		Mostly Cloudy
7:54 AM	64.0 °F	57.0 °F	76%	30.15 in	9.0 mi	SE	3.5 mph	-	N/A		Mostly Cloudy
8:54 AM	65.2 °F	57.2 °F	73%	30.15 in	10.0 mi	South	4.8 mph	-	N/A		Mostly Cloudy
9:54 AM	72.0 °F	59.0 °F	64%	30.13 in	10.0 mi	South	6.1 mph	-	N/A		Scattered Clouds
10:54 AM	76.0 °F	57.9 °F	55%	30.12 in	10.0 mi	WSW	10.4 mph	-	N/A		Scattered Clouds
11:54 AM	75.9 °F	59.0 °F	58%	30.11 in	10.0 mi	SW	15.0 mph	-	N/A		Scattered Clouds
12:54 PM	77.0 °F	61.0 °F	58%	30.10 in	10.0 mi	West	10.4 mph	23.0 mph	N/A		Mostly Cloudy
1:54 PM	75.0 °F	61.0 °F	62%	30.09 in	10.0 mi	NW	10.4 mph	-	N/A		Mostly Cloudy
2:54 PM	70.0 °F	59.0 °F	68%	30.08 in	10.0 mi	NNW	10.4 mph	-	N/A		Overcast
3:25 PM	68.0 °F	57.2 °F	68%	30.10 in	10.0 mi	NW	11.5 mph	18.4 mph	0.00 in	Rain	Light Rain
3:31 PM	66.2 °F	57.2 °F	73%	30.12 in	1.0 mi	WNW	21.9 mph	32.2 mph	0.00 in	Rain	Heavy Rain
3:38 PM	62.6 °F	59.0 °F	88%	30.13 in	1.5 mi	NW	18.4 mph	27.6 mph	0.06 in	Rain	Heavy Rain
3:41 PM	62.6 °F	59.0 °F	88%	30.13 in	2.0 mi	NW	18.4 mph	26.6 mph	0.08 in	Rain	Heavy Rain
3:44 PM	62.6 °F	59.0 °F	88%	30.13 in	3.0 mi	NW	15.0 mph	26.5 mph	0.13 in	Rain	Heavy Rain

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History | Weather Underground

Time (EDT)	Temp.	Dew Point	Humidity	Pressure	Visibility	Wind Dir	Wind Speed	Gust Speed	Precip	Events	Conditions
3:54 PM	62.1 °F	59.0 °F	90%	30.13 in	8.0 mi	NW	15.0 mph	20.7 mph	0.16 in	Rain	Rain
4:39 PM	60.8 °F	59.0 °F	94%	30.14 in	6.0 mi	NNW	3.6 mph	-	0.15 in	Rain	Rain
4:54 PM	61.0 °F	57.9 °F	90%	30.15 in	6.0 mi	NNW	10.4 mph	-	0.18 in	Rain	Rain
5:50 PM	59.0 °F	55.4 °F	88%	30.18 in	8.0 mi	NNW	10.4 mph	18.6 mph	0.09 in	Rain	Light Rain
5:54 PM	59.0 °F	55.9 °F	90%	30.18 in	8.0 mi	NNW	11.5 mph	-	0.10 in	Rain	Light Rain
6:54 PM	60.1 °F	55.0 °F	83%	30.18 in	10.0 mi	NNW	8.1 mph	-	0.02 in		Mostly Cloudy
7:54 PM	57.9 °F	54.0 °F	87%	30.19 in	10.0 mi	West	5.8 mph	-	N/A		Scattered Clouds
8:54 PM	57.9 °F	54.0 °F	87%	30.21 in	10.0 mi	WSW	5.8 mph	-	N/A		Scattered Clouds
9:54 PM	57.0 °F	52.0 °F	83%	30.21 in	10.0 mi	West	5.8 mph	-	N/A		Partly Cloudy
10:54 PM	55.9 °F	50.0 °F	80%	30.21 in	10.0 mi	West	5.8 mph	-	N/A		Partly Cloudy
11:54 PM	55.0 °F	48.9 °F	80%	30.22 in	10.0 mi	West	4.6 mph	-	N/A		Partly Cloudy

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ATTACHMENT F

Raw Preliminary Analytical Data

Sample Summary

Weston Solutions, Inc.

Job No: JB16513

RFP# 238

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID	
JB16513-1	09/13/12	12:40 JP	09/17/12	AIR	Air	P0001-AA001-091312-001
JB16513-2	09/13/12	12:20 JP	09/17/12	AIR	Air	P0002-AA001-091312-001
JB16513-3	09/13/12	12:15 JP	09/17/12	AIR	Air	P0003-AA001-091312-001
JB16513-4	09/13/12	10:31 JP	09/17/12	AIR	Air	P0004-AA001-091312-001
JB16513-5	09/13/12	11:49 JP	09/17/12	AIR	Air	P0005-AA001-091312-001
JB16513-6	09/13/12	11:39 JP	09/17/12	AIR	Air	P0006-AA001-091312-001
JB16513-7	09/13/12	11:24 JP	09/17/12	AIR	Air	P0007-AA001-091312-001
JB16513-8	09/13/12	12:35 JP	09/17/12	AIR	Air	P0008-AA001-091312-001
JB16513-9	09/13/12	12:02 JP	09/17/12	AIR	Air	P0009-AA001-091312-001
JB16513-10	09/13/12	09:50 JP	09/17/12	AIR	Air	P0010-AA001-091312-001

Report of Analysis

Page 1 of 3

Client Sample ID: P0001-AA001-091312-001

Lab Sample ID: JB16513-1

Matrix: AIR - Air Summa ID: A1021

Method: TO-15

Project: RFP# 238

Date Sampled: 09/13/12

Date Received: 09/17/12

Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W35997.D	1	09/17/12	YMH	n/a	n/a	V2W1509
Run #2	2W35998.D	1	09/17/12	YMH	n/a	n/a	V2W1509

Initial Volume	
Run #1	100 ml
Run #2	20.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	59.3	0.80	0.15	ppbv		141	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.097	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	215 ^a	4.0	0.92	ppbv		687 ^a	13	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.15	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.15	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.16	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	5.1	0.80	0.11	ppbv		23	3.7	ug/m3
75-00-3	64.52	Chloroethane	5.3	0.80	0.16	ppbv		14	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	27.9	0.80	0.15	ppbv		57.6	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.17	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.12	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.13	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.11	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.17	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.15	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.22	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.80	0.15	ppbv	J	2.5	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.11	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.15	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.17	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	0.78	0.80	0.11	ppbv	J	4.7	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.10	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.16	ppbv		ND	3.6	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	P0001-AA001-091312-001	Date Sampled:	09/13/12
Lab Sample ID:	JB16513-1	Date Received:	09/17/12
Matrix:	AIR - Air Summa ID: A1021		
Method:	TO-15	Percent Solids:	n/a
Project:	RFP# 238		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	16.1	2.0	0.38	ppbv		30.3	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	337 ^a	4.0	0.61	ppbv		1460 ^a	17	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.24	ppbv		ND	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	1.8	0.80	0.096	ppbv		8.8	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.14	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.12	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	9.3	0.80	0.13	ppbv		38	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	10.3	0.80	0.18	ppbv		36.3	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	3.1	0.80	0.23	ppbv		7.6	2.0	ug/m3
75-09-2	84.94	Methylene chloride	0.82	0.80	0.11	ppbv		2.8	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	8.2	0.80	0.19	ppbv		24	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	3.0	0.80	0.14	ppbv		12	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.11	ppbv		ND	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.17	ppbv		ND	3.3	ug/m3
115-07-1	42	Propylene	466 ^a	10	1.4	ppbv		800 ^a	17	ug/m3
100-42-5	104.1	Styrene	519 ^a	4.0	0.55	ppbv		2210 ^a	17	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.088	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.20	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	7.1	0.80	0.096	ppbv		35	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	33.9	0.80	0.11	ppbv		167	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.11	ppbv		ND	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	4.6	0.80	0.19	ppbv		14	2.4	ug/m3
108-88-3	92.14	Toluene	213 ^a	4.0	0.80	ppbv		803 ^a	15	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.13	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.17	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.23	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	24.5	0.80	0.12	ppbv		106	3.5	ug/m3
95-47-6	106.2	o-Xylene	11.7	0.80	0.12	ppbv		50.8	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	36.2	0.80	0.12	ppbv		157	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%	104%	65-128%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: P0001-AA001-091312-001
Lab Sample ID: JB16513-1
Matrix: AIR - Air Summa ID: A1021
Method: TO-15
Project: RFP# 238

Date Sampled: 09/13/12
Date Received: 09/17/12
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	P0002-AA001-091312-001			Date Sampled:	09/13/12		
Lab Sample ID:	JB16513-2			Date Received:	09/17/12		
Matrix:	AIR - Air Summa ID: A362			Percent Solids:	n/a		
Method:	TO-15						
Project:	RFP# 238						
Run #1	File ID 3W30271.D	DF 1	Analyzed 09/17/12	By YXC	Prep Date n/a	Prep Batch n/a	Analytical Batch V3W1179
Run #2							
Initial Volume							
Run #1	400 ml						
Run #2							

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	10.9	0.20	0.036	ppbv		25.9	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.13	0.20	0.046	ppbv	J	0.42	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.49	0.20	0.037	ppbv		1.0	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.48	0.20	0.038	ppbv		2.4	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: P0002-AA001-091312-001
 Lab Sample ID: JB16513-2
 Matrix: AIR - Air Summa ID: A362
 Method: TO-15
 Project: RFP# 238

Date Sampled: 09/13/12
 Date Received: 09/17/12
 Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	2.2	0.50	0.095	ppbv	J	0.94	ug/m3	
100-41-4	106.2	Ethylbenzene	ND	0.20	0.031	ppbv	ND	0.87	ug/m3	
141-78-6	88	Ethyl Acetate	2.0	0.20	0.061	ppbv	7.2	0.72	ug/m3	
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.024	ppbv	ND	0.98	ug/m3	
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv	ND	1.5	ug/m3	
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv	ND	1.4	ug/m3	
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv	ND	0.82	ug/m3	
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv	ND	2.1	ug/m3	
110-54-3	86.17	Hexane	1.4	0.20	0.044	ppbv	4.9	0.70	ug/m3	
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv	ND	0.82	ug/m3	
67-63-0	60.1	Isopropyl Alcohol	0.42	0.20	0.059	ppbv	1.0	0.49	ug/m3	
75-09-2	84.94	Methylene chloride	0.67	0.20	0.027	ppbv	2.3	0.69	ug/m3	
78-93-3	72.11	Methyl ethyl ketone	0.53	0.20	0.048	ppbv	1.6	0.59	ug/m3	
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv	ND	0.82	ug/m3	
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv	ND	0.72	ug/m3	
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv	ND	0.82	ug/m3	
115-07-1	42	Propylene	ND	0.50	0.070	ppbv	ND	0.86	ug/m3	
100-42-5	104.1	Styrene	ND	0.20	0.027	ppbv	ND	0.85	ug/m3	
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv	ND	1.1	ug/m3	
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv	ND	1.4	ug/m3	
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv	ND	1.1	ug/m3	
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv	ND	1.5	ug/m3	
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv	ND	0.98	ug/m3	
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv	ND	0.98	ug/m3	
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv	ND	0.93	ug/m3	
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv	ND	0.61	ug/m3	
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.028	ppbv	ND	0.27	ug/m3	
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv	ND	0.59	ug/m3	
108-88-3	92.14	Toluene	0.22	0.20	0.040	ppbv	0.83	0.75	ug/m3	
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv	ND	0.21	ug/m3	
75-69-4	137.4	Trichlorofluoromethane	0.21	0.20	0.042	ppbv	1.2	1.1	ug/m3	
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv	ND	0.51	ug/m3	
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv	ND	0.70	ug/m3	
	106.2	m,p-Xylene	0.13	0.20	0.031	ppbv	J	0.56	0.87	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.031	ppbv	ND	0.87	ug/m3	
1330-20-7	106.2	Xylenes (total)	0.13	0.20	0.031	ppbv	J	0.56	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		65-128%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: P0003-AA001-091312-001
 Lab Sample ID: JB16513-3
 Matrix: AIR - Air Summa ID: A204
 Method: TO-15
 Project: RFP# 238

Date Sampled: 09/13/12
 Date Received: 09/17/12
 Percent Solids: n/a

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
	3W30272.D	1	09/17/12	YXC	n/a	n/a	V3W1179

Run #1	Initial Volume
	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	10.6	0.20	0.036	ppbv		25.2	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	7.9	0.20	0.046	ppbv		25	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	0.12	0.20	0.027	ppbv	J	0.55	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	2.0	0.20	0.037	ppbv		4.1	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.15	0.20	0.038	ppbv	J	0.74	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	P0003-AA001-091312-001	Date Sampled:	09/13/12
Lab Sample ID:	JB16513-3	Date Received:	09/17/12
Matrix:	AIR - Air Summa ID: A204	Percent Solids:	n/a
Method:	TO-15		
Project:	RFP# 238		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	3.4	0.50	0.095	ppbv		6.4	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	10.4	0.20	0.031	ppbv		45.2	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.8	0.20	0.061	ppbv		6.5	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	0.49	0.20	0.033	ppbv		2.0	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.76	0.20	0.044	ppbv		2.7	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.63	0.20	0.059	ppbv		1.5	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.33	0.20	0.027	ppbv		1.1	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.0	0.20	0.048	ppbv		2.9	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.21	0.20	0.036	ppbv		0.86	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	14.3	0.20	0.027	ppbv		60.9	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.24	0.20	0.024	ppbv		1.2	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.67	0.20	0.028	ppbv		3.3	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.91	0.20	0.032	ppbv		2.8	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.23	0.20	0.047	ppbv		0.68	0.59	ug/m3
108-88-3	92.14	Toluene	8.9	0.20	0.040	ppbv		34	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.25	0.20	0.042	ppbv		1.4	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	1.9	0.20	0.031	ppbv		8.3	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.87	0.20	0.031	ppbv		3.8	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	2.8	0.20	0.031	ppbv		12	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		65-128%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	P0004-AA001-091312-001	Date Sampled:	09/13/12
Lab Sample ID:	JB16513-4	Date Received:	09/17/12
Matrix:	AIR - Air Summa ID: A642	Percent Solids:	n/a
Method:	TO-15		
Project:	RFP# 238		
Run #1	File ID 2W35999.D	DF 1	Analyzed 09/17/12
Run #2			
Run #1	Initial Volume 400 ml		
Run #2			

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	6.5	0.20	0.036	ppbv		15	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.14	0.20	0.046	ppbv	J	0.45	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.56	0.20	0.037	ppbv		12	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.20	0.038	ppbv		2.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: P0004-AA001-091312-001
 Lab Sample ID: JB16513-4
 Matrix: AIR - Air Summa ID: A642
 Method: TO-15
 Project: RFP# 238

Date Sampled: 09/13/12
 Date Received: 09/17/12
 Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	1.9	0.50	0.095	ppbv		3.6	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.11	0.20	0.031	ppbv	J	0.48	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.5	0.20	0.061	ppbv		5.4	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.59	0.20	0.044	ppbv		2.1	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.52	0.20	0.027	ppbv		1.8	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.58	0.20	0.048	ppbv		1.7	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.11	0.20	0.027	ppbv	J	0.47	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.30	0.20	0.040	ppbv		1.1	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.25	0.20	0.042	ppbv		1.4	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.24	0.20	0.031	ppbv		1.0	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.10	0.20	0.031	ppbv	J	0.43	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.34	0.20	0.031	ppbv		1.5	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		65-128%

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: P0005-AA001-091312-001
 Lab Sample ID: JB16513-5
 Matrix: AIR - Air Summa ID: A313
 Method: TO-15
 Project: RFP# 238

Date Sampled: 09/13/12
 Date Received: 09/17/12
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W36000.D	1	09/17/12	YMH	n/a	n/a	V2W1509
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	6.3	0.20	0.036	ppbv	15	0.48	ug/m3	
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv	ND	0.44	ug/m3	
71-43-2	78.11	Benzene	2.5	0.20	0.046	ppbv	8.0	0.64	ug/m3	
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv	ND	1.3	ug/m3	
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv	ND	2.1	ug/m3	
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv	ND	0.78	ug/m3	
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv	ND	0.87	ug/m3	
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv	ND	1.0	ug/m3	
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv	ND	0.62	ug/m3	
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv	ND	0.92	ug/m3	
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv	ND	0.53	ug/m3	
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv	ND	0.98	ug/m3	
74-87-3	50.49	Chloromethane	0.99	0.20	0.037	ppbv	2.0	0.41	ug/m3	
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv	ND	0.63	ug/m3	
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv	ND	1.0	ug/m3	
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv	ND	1.3	ug/m3	
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv	ND	0.69	ug/m3	
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv	ND	0.81	ug/m3	
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv	ND	0.79	ug/m3	
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv	ND	1.5	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv	ND	0.81	ug/m3	
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv	ND	0.92	ug/m3	
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv	ND	0.72	ug/m3	
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.20	0.038	ppbv	2.4	0.99	ug/m3	
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv	ND	1.7	ug/m3	
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv	ND	0.79	ug/m3	
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv	ND	0.79	ug/m3	
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv	ND	0.91	ug/m3	
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv	ND	1.2	ug/m3	
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv	ND	1.2	ug/m3	
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv	ND	1.2	ug/m3	
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv	ND	0.91	ug/m3	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	P0005-AA001-091312-001	Date Sampled:	09/13/12
Lab Sample ID:	JB16513-5	Date Received:	09/17/12
Matrix:	AIR - Air Summa ID: A313	Percent Solids:	n/a
Method:	TO-15		
Project:	RFP# 238		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	2.4	0.50	0.095	ppbv		4.5	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	2.4	0.20	0.031	ppbv		10	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.4	0.20	0.061	ppbv		5.0	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	0.15	0.20	0.033	ppbv	J	0.61	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.96	0.20	0.044	ppbv		3.4	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.66	0.20	0.027	ppbv		2.3	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.56	0.20	0.048	ppbv		1.7	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	3.0	0.50	0.070	ppbv		5.2	0.86	ug/m3
100-42-5	104.1	Styrene	1.3	0.20	0.027	ppbv		5.5	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	2.5	0.20	0.040	ppbv		9.4	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.29	0.20	0.042	ppbv		1.6	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.32	0.20	0.031	ppbv		1.4	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.13	0.20	0.031	ppbv	J	0.56	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.45	0.20	0.031	ppbv		2.0	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		65-128%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	P0006-AA001-091312-001	Date Sampled:	09/13/12
Lab Sample ID:	JB16513-6	Date Received:	09/17/12
Matrix:	AIR - Air Summa ID: A371	Percent Solids:	n/a
Method:	TO-15		
Project:	RFP# 238		

Run #1	File ID 2W36001.D	DF 1	Analyzed 09/17/12	By YMH	Prep Date n/a	Prep Batch n/a	Analytical Batch V2W1509
Run #2							

Initial Volume
Run #1 400 ml
Run #2

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	6.4	0.20	0.036	ppbv	15	0.48	ug/m3	
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv	ND	0.44	ug/m3	
71-43-2	78.11	Benzene	1.3	0.20	0.046	ppbv	4.2	0.64	ug/m3	
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv	ND	1.3	ug/m3	
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv	ND	2.1	ug/m3	
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv	ND	0.78	ug/m3	
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv	ND	0.87	ug/m3	
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv	ND	1.0	ug/m3	
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv	ND	0.62	ug/m3	
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv	ND	0.92	ug/m3	
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv	ND	0.53	ug/m3	
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv	ND	0.98	ug/m3	
74-87-3	50.49	Chloromethane	0.70	0.20	0.037	ppbv	1.4	0.41	ug/m3	
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv	ND	0.63	ug/m3	
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv	ND	1.0	ug/m3	
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv	ND	1.3	ug/m3	
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv	ND	0.69	ug/m3	
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv	ND	0.81	ug/m3	
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv	ND	0.79	ug/m3	
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv	ND	1.5	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv	ND	0.81	ug/m3	
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv	ND	0.92	ug/m3	
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv	ND	0.72	ug/m3	
75-71-8	120.9	Dichlorodifluoromethane	0.47	0.20	0.038	ppbv	2.3	0.99	ug/m3	
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv	ND	1.7	ug/m3	
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv	ND	0.79	ug/m3	
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv	ND	0.79	ug/m3	
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv	ND	0.91	ug/m3	
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv	ND	1.2	ug/m3	
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv	ND	1.2	ug/m3	
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv	ND	1.2	ug/m3	
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv	ND	0.91	ug/m3	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: P0006-AA001-091312-001
 Lab Sample ID: JB16513-6
 Matrix: AIR - Air Summa ID: A371
 Method: TO-15
 Project: RFP# 238

Date Sampled: 09/13/12
 Date Received: 09/17/12
 Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	1.3	0.50	0.095	ppbv		2.4	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	2.0	0.20	0.031	ppbv		3.7	0.87	ug/m3
141-78-6	88	Ethyl Acetate	2.1	0.20	0.061	ppbv		7.6	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	1.8	0.20	0.044	ppbv		6.3	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	2.4	0.20	0.027	ppbv		8.3	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.50	0.20	0.048	ppbv		1.5	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.16	0.20	0.036	ppbv	J	0.66	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	1.8	0.50	0.070	ppbv		3.1	0.86	ug/m3
100-42-5	104.1	Styrene	2.8	0.20	0.027	ppbv		12	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.10	0.20	0.024	ppbv	J	0.49	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.17	0.20	0.028	ppbv	J	0.84	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	1.5	0.20	0.040	ppbv		5.7	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.24	0.20	0.042	ppbv		1.3	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.43	0.20	0.031	ppbv		1.9	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.18	0.20	0.031	ppbv	J	0.78	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.61	0.20	0.031	ppbv		2.6	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		65-128%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: P0007-AA001-091312-001
 Lab Sample ID: JB16513-7
 Matrix: AIR - Air Summa ID: A874
 Method: TO-15
 Project: RFP# 238

Date Sampled: 09/13/12
 Date Received: 09/17/12
 Percent Solids: n/a

Run #1	File ID 2W36002.D	DF 1	Analyzed 09/17/12	By YMH	Prep Date n/a	Prep Batch n/a	Analytical Batch V2W1509
Run #2							

Run #1	Initial Volume 400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	5.6	0.20	0.036	ppbv	13	0.48	ug/m3	
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv	ND	0.44	ug/m3	
71-43-2	78.11	Benzene	0.50	0.20	0.046	ppbv	1.6	0.64	ug/m3	
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv	ND	1.3	ug/m3	
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv	ND	2.1	ug/m3	
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv	ND	0.78	ug/m3	
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv	ND	0.87	ug/m3	
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv	ND	1.0	ug/m3	
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv	ND	0.62	ug/m3	
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv	ND	0.92	ug/m3	
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv	ND	0.53	ug/m3	
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv	ND	0.98	ug/m3	
74-87-3	50.49	Chloromethane	0.58	0.20	0.037	ppbv	1.2	0.41	ug/m3	
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv	ND	0.63	ug/m3	
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv	ND	1.0	ug/m3	
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv	ND	1.3	ug/m3	
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv	ND	0.69	ug/m3	
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv	ND	0.81	ug/m3	
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv	ND	0.79	ug/m3	
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv	ND	1.5	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv	ND	0.81	ug/m3	
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv	ND	0.92	ug/m3	
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv	ND	0.72	ug/m3	
75-71-8	120.9	Dichlorodifluoromethane	0.54	0.20	0.038	ppbv	2.7	0.99	ug/m3	
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv	ND	1.7	ug/m3	
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv	ND	0.79	ug/m3	
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv	ND	0.79	ug/m3	
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv	ND	0.91	ug/m3	
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv	ND	1.2	ug/m3	
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv	ND	1.2	ug/m3	
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv	ND	1.2	ug/m3	
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv	ND	0.91	ug/m3	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: P0007-AA001-091312-001
 Lab Sample ID: JB16513-7
 Matrix: AIR - Air Summa ID: A874
 Method: TO-15
 Project: RFP# 238

Date Sampled: 09/13/12
 Date Received: 09/17/12
 Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	1.4	0.50	0.095	ppbv		2.6	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.65	0.20	0.031	ppbv		2.8	0.87	ug/m3
141-78-6	88	Ethyl Acetate	2.5	0.20	0.061	ppbv		9.0	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	0.099	0.20	0.034	ppbv	J	0.76	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.93	0.20	0.044	ppbv		3.3	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.059	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.73	0.20	0.027	ppbv		2.5	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.46	0.20	0.048	ppbv		1.4	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.73	0.20	0.027	ppbv		3.1	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.12	0.20	0.024	ppbv	J	0.59	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.74	0.20	0.040	ppbv		2.8	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.27	0.20	0.042	ppbv		1.5	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.32	0.20	0.031	ppbv		1.4	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.13	0.20	0.031	ppbv	J	0.56	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.45	0.20	0.031	ppbv		2.0	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		65-128%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	P0008-AA001-091312-001	Date Sampled:	09/13/12
Lab Sample ID:	JB16513-8	Date Received:	09/17/12
Matrix:	AIR - Air Summa ID: A849	Percent Solids:	n/a
Method:	TO-15		
Project:	RFP# 238		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30273.D	1	09/17/12	YXC	n/a	n/a	V3W1179
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	5.0	0.20	0.036	ppbv	12	0.48	ug/m3	
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv	ND	0.44	ug/m3	
71-43-2	78.11	Benzene	0.55	0.20	0.046	ppbv	1.8	0.64	ug/m3	
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv	ND	1.3	ug/m3	
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv	ND	2.1	ug/m3	
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv	ND	0.78	ug/m3	
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv	ND	0.87	ug/m3	
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv	ND	1.0	ug/m3	
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv	ND	0.62	ug/m3	
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv	ND	0.92	ug/m3	
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv	ND	0.53	ug/m3	
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv	ND	0.98	ug/m3	
74-87-3	50.49	Chloromethane	0.66	0.20	0.037	ppbv	1.4	0.41	ug/m3	
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv	ND	0.63	ug/m3	
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv	ND	1.0	ug/m3	
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv	ND	1.3	ug/m3	
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv	ND	0.69	ug/m3	
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv	ND	0.81	ug/m3	
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv	ND	0.79	ug/m3	
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv	ND	1.5	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv	ND	0.81	ug/m3	
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv	ND	0.92	ug/m3	
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv	ND	0.72	ug/m3	
75-71-8	120.9	Dichlorodifluoromethane	0.61	0.20	0.038	ppbv	3.0	0.99	ug/m3	
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv	ND	1.7	ug/m3	
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv	ND	0.79	ug/m3	
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv	ND	0.79	ug/m3	
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv	ND	0.91	ug/m3	
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv	ND	1.2	ug/m3	
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv	ND	1.2	ug/m3	
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv	ND	1.2	ug/m3	
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv	ND	0.91	ug/m3	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: P0008-AA001-091312-001
 Lab Sample ID: JB16513-8
 Matrix: AIR - Air Summa ID: A849
 Method: TO-15
 Project: RFP# 238

Date Sampled: 09/13/12
 Date Received: 09/17/12
 Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	2.5	0.50	0.095	ppbv		4.7	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.63	0.20	0.031	ppbv		2.7	0.87	ug/m3
141-78-6	88	Ethyl Acetate	6.0	0.20	0.061	ppbv		22	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	0.24	0.20	0.034	ppbv		1.8	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.38	0.20	0.044	ppbv		1.3	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.29	0.20	0.059	ppbv		0.71	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.40	0.20	0.027	ppbv		1.4	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.40	0.20	0.048	ppbv		1.2	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.73	0.20	0.027	ppbv		3.1	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.69	0.20	0.040	ppbv		2.6	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.24	0.20	0.042	ppbv		1.3	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.22	0.20	0.031	ppbv		0.96	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.10	0.20	0.031	ppbv	J	0.43	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.32	0.20	0.031	ppbv		1.4	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		65-128%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	P0009-AA001-091312-001		
Lab Sample ID:	JB16513-9	Date Sampled:	09/13/12
Matrix:	AIR - Air	Summa ID:	A854
Method:	TO-15	Date Received:	09/17/12
Project:	RFP# 238	Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W30274.D	1	09/17/12	YXC	n/a	n/a	V3W1179
Run #2	3W30275A.D	1	09/17/12	YXC	n/a	n/a	V3W1179

	Initial Volume
Run #1	400 ml
Run #2	100 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	44.5 ^a	0.80	0.15	ppbv		106 ^a	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.26	0.20	0.046	ppbv		0.83	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.14	0.20	0.028	ppbv	J	0.68	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.59	0.20	0.037	ppbv		1.2	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.61	0.20	0.038	ppbv		3.0	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: P0009-AA001-091312-001
 Lab Sample ID: JB16513-9
 Matrix: AIR - Air Summa ID: A854
 Method: TO-15
 Project: RFP# 238

Date Sampled: 09/13/12
 Date Received: 09/17/12
 Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	1.1	0.50	0.095	ppbv		2.1	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	1.1	0.20	0.031	ppbv		4.8	0.87	ug/m3
141-78-6	88	Ethyl Acetate	3.1	0.20	0.061	ppbv		11	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.73	0.20	0.024	ppbv		3.6	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.16	0.20	0.044	ppbv	J	0.56	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.43	0.20	0.059	ppbv		1.1	0.49	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.68	0.20	0.048	ppbv		2.0	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.21	0.20	0.027	ppbv		0.89	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.4	0.20	0.024	ppbv		6.9	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.61	0.20	0.028	ppbv		3.0	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.095	0.20	0.032	ppbv	J	0.29	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.44	0.20	0.040	ppbv		1.7	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.23	0.20	0.042	ppbv		1.3	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	4.1	0.20	0.031	ppbv		18	0.87	ug/m3
95-47-6	106.2	o-Xylene	1.6	0.20	0.031	ppbv		6.9	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	5.7	0.20	0.031	ppbv		25	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%	96%	65-128%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	P0009-AA001-091312-001
Lab Sample ID:	JB16513-9
Matrix:	AIR - Air Summa ID: A854
Method:	TO-15
Project:	RFP# 238

Date Sampled:	09/13/12
Date Received:	09/17/12
Percent Solids:	n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	P0010-AA001-091312-001	Date Sampled:	09/13/12
Lab Sample ID:	JB16513-10	Date Received:	09/17/12
Matrix:	AIR - Air Summa ID: A737	Percent Solids:	n/a
Method:	TO-15		
Project:	RFP# 238		

Run #1	File ID 3W30275.D	DF 1	Analyzed 09/17/12	By YXC	Prep Date n/a	Prep Batch n/a	Analytical Batch V3W1179
Run #2							

Initial Volume	
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	4.3	0.20	0.036	ppbv	J	0.48	ug/m3	
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv	ND	0.44	ug/m3	
71-43-2	78.11	Benzene	0.26	0.20	0.046	ppbv	0.83	0.64	ug/m3	
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv	ND	1.3	ug/m3	
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv	ND	2.1	ug/m3	
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv	ND	0.78	ug/m3	
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv	ND	0.87	ug/m3	
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv	ND	1.0	ug/m3	
75-15-0	76.14	Carbon disulfide	ND	0.20	0.032	ppbv	ND	0.62	ug/m3	
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv	ND	0.92	ug/m3	
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv	ND	0.53	ug/m3	
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv	ND	0.98	ug/m3	
74-87-3	50.49	Chloromethane	0.57	0.20	0.037	ppbv	1.2	0.41	ug/m3	
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv	ND	0.63	ug/m3	
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv	ND	1.0	ug/m3	
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv	ND	1.3	ug/m3	
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv	ND	0.69	ug/m3	
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv	ND	0.81	ug/m3	
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv	ND	0.79	ug/m3	
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv	ND	1.5	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv	ND	0.81	ug/m3	
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv	ND	0.92	ug/m3	
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv	ND	0.72	ug/m3	
75-71-8	120.9	Dichlorodifluoromethane	0.56	0.20	0.038	ppbv	2.8	0.99	ug/m3	
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv	ND	1.7	ug/m3	
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv	ND	0.79	ug/m3	
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv	ND	0.79	ug/m3	
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv	ND	0.91	ug/m3	
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv	ND	1.2	ug/m3	
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv	ND	1.2	ug/m3	
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv	ND	1.2	ug/m3	
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv	ND	0.91	ug/m3	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	P0010-AA001-091312-001	Date Sampled:	09/13/12
Lab Sample ID:	JB16513-10	Date Received:	09/17/12
Matrix:	AIR - Air Summa ID: A737	Percent Solids:	n/a
Method:	TO-15		
Project:	RFP# 238		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	1.8	0.50	0.095	ppbv		3.4	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.22	0.20	0.031	ppbv		0.96	0.87	ug/m3
141-78-6	88	Ethyl Acetate	10.5	0.20	0.061	ppbv		37.8	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	0.28	0.20	0.034	ppbv		2.1	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.72	0.20	0.044	ppbv		2.5	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.33	0.20	0.059	ppbv		0.81	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.50	0.20	0.027	ppbv		1.7	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.32	0.20	0.048	ppbv		0.94	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	0.77	0.50	0.070	ppbv		1.3	0.86	ug/m3
100-42-5	104.1	Styrene	0.21	0.20	0.027	ppbv		0.89	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.032	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.043	0.040	0.028	ppbv		0.29	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.49	0.20	0.040	ppbv		1.8	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.24	0.20	0.042	ppbv		1.3	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.12	0.20	0.031	ppbv	J	0.52	0.87	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.12	0.20	0.031	ppbv	J	0.52	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	78%		65-128%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Air

USEPA
Date Shipped: 9/17/2012
Carrier Name: Hand Delivery
Airbill No: NA

CHAIN OF CUSTODY RECORD
RFP # 238
Contact Name: Joel Petty
Contact Phone: 732-570-4943

JB16513

No: 2-091412-114240-0001
Lab: Accutest Laboratories
Lab Contact: Susan Gletz
Lab Phone: 732-329-0200

Lab #	Sample #	Analyses	Matrix	Numb Cont	Container	Pump #	OrificeID	Start Pressure	Stop Pressure	MS/MSD	Start Date	Start Time	Stop Date	Stop Time
-1	P0001-AA001-091312-001	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A1021	Regulator #: FC451	-28	-3.5	N	9/13/2012	12:35:00 PM	9/14/2012	12:40:00 PM
-2	P0002-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A362	Regulator #: FC096	-31	-5	N	9/13/2012	11:53:00 AM	9/14/2012	12:20:00 PM
-3	P0003-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A204	Regulator #: FC379	-30	-3	N	9/13/2012	12:08:00 PM	9/14/2012	12:15:00 PM
-4	P0004-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A642	Regulator #: FC447	-32	-6	N	9/13/2012	10:25:00 AM	9/14/2012	10:31:00 AM
-5	P0005-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A313	Regulator #: FC115	-28	-3	N	9/13/2012	11:40:00 AM	9/14/2012	11:49:00 AM
-6	P0006-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A371	Regulator #: FC525	-30	-5	N	9/13/2012	11:30:00 AM	9/14/2012	11:39:00 AM
-7	P0007-AA001-091312-01	Volatile Organic Compounds	Air	1	Summa Canister	Summa #: A874	Regulator #: FC507	-29	-3	N	9/13/2012	11:24:00 AM	9/14/2012	11:24:00 AM

Special Instructions: Samples to be analyzed using TO-15
24 Hour TAT

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Summa

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples all analytes	Joel Petty	9/17/12	J. Gletz	9/17/12	9:00						

JB16513: Chain of Custody
Page 1 of 3

USEPA

DateShipped: 9/17/2012
CarrierName: Hand Delivery
AirbillNo: NA

CHAIN OF CUSTODY RECORD

RFP #238

Contact Name: Joel Petty

Contact Phone: 732-570-4943

No: 2-091412-114240-0001

Lab: Accutest Laboratories

Lab Contact: Susan Ghetz

Lab Phone: 732-338-0300

Special Instructions: Samples to be analyzed using TO-15
24 Hour TAT

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

JB16513: Chain of Custody
Page 2 of 3



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB16513

Client: _____

Project: _____

Date / Time Received: 9/17/2012

Delivery Method: _____

Airbill #: _____

Cooler Temps (Initial/Adjusted): _____

Cooler Security Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | _____ | |
| 3. Cooler media: | _____ | |
| 4. No. Coolers: | 0 | |

Quality Control Preservation Y or N N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample rcvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume rcvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Accutest Laboratories
V:732.329.02002235 US Highway 130
F: 732.329.3499Dayton, New Jersey
www.accutest.com**JB16513: Chain of Custody****Page 3 of 3**